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TEST REPORT

Product : 9.7 inch3G Phone Tablet

Trade mark : Dragon Touch, KINGPAD,

KINGSLIM, AKASO

Model/Type reference: E97, E97 PRO, E97X, E97 PLUS,

E970, E97 ULTIMATE

Serial Number : N/A

Report Number : EED32H0097804

FCC ID : S5V-D970E1

Date of Issue : Dec. 30, 2015

Test Standards : 47 CFR Part 2(2014)

47 CFR Part 22 subpart H(2014) 47 CFR Part 24 subpart E(2014)

Test result : PASS

Prepared for:

Proexpress Distributor LLC 11011 GREENWOOD AVE. N APT 5, SEATTLE, WA 98103.

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Dec. 30, 2015

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2 Version

Version No.	Date	Description		
00	Dec. 30, 2015	Original	/*>	/25
		(%)	(62)	(6/17)











































































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3 Test Summary

	GSM 850, WCDMA(E	Band V)	
Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a)/Part 22.913(a)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Effective Radiated Power of Transmitter(ERP)	Part 2.1046(a)/Part 22.913(a)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
99%&26dBOccupied Bandwidth	Part 2.1049(h)	Part 22.917(b)&KDB 971168 D01v02r02	PASS
Band Edge at antenna terminals	Part 2.1051/Part 22.917(a)	Part 22.917(b)&KDB 971168 D01v02r02	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Field strength of spurious radiation	Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Frequency stability	Part 2.1055/ Part 22.355	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
	GSM 1900,WCDMA(Band II)	
Test Item	Test Requirement	Test method	Result
Conducted output power	Part 2.1046(a) /Part 24.232(c)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Effective Radiated Power of Transmitter(EIRP)	Part 2.1046(a) / Part 24.232(c)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
peak-to-average ratio	Part 24.232(d)	KDB 971168 D01v02r02	PASS
99%&26dBOccupied Bandwidth	Part 2.1049(h)	Part 24.238(b)&KDB 971168 D01v02r02	PASS
Band Edge at antenna terminals	Part 2.1051/ Part 24.238(a)	Part 24.238(b)&KDB 971168 D01v02r02	PASS
Spurious emissions at antenna terminals	Part 2.1051/ Part 2.1057/ Part 24.238(a)(b)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Field strength of spurious radiation	Part 2.1053 /Part 2.1057/ Part 24.238(a)(b)	TIA-603-D-2010&KDB 971168 D01v02r02	PASS
Frequency stability	Part 2.1055/Part 24.235	TIA-603-D-2010&KDB 971168 D01v02r02	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Model No.: E97, E97 PRO, E97X, E97 PLUS, E970, E97 ULTIMATE

Only the model E97 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being model name and brand name.







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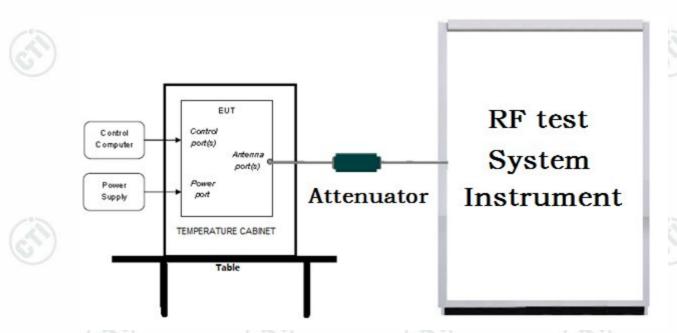


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

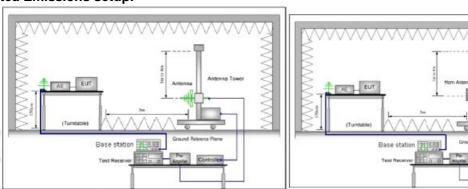


Figure 1.30MHz to 1GHz Figure 2. above 1GHz

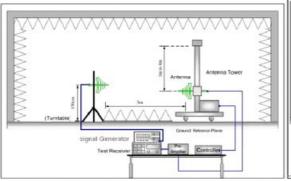


Figure 1. 30MHz to 1GHz

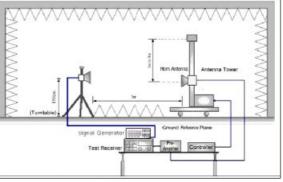


Figure 2. above 1GHz





5.2 Test Environment

Operating Environment:		
Temperature:	24°C	
Humidity:	50% RH	 755
Atmospheric Pressure:	1010mbar	(4)

5.3 Test Condition

Test channel:

Took Mode	Ty/Dy	50%	RF Channel	
Test Mode	Tx/Rx	Low(L)	Middle(M)	High(H)
(0,)	Tx	Channel 128	Channel 190	Channel 251
GSM/GPRS	(824 MHz ~849 MHz)	824.2MHz	836.6 MHz	848.8 MHz
850MHz	Rx	Channel 128	Channel 190	Channel 251
	(869 MHz ~894 MHz)	869.2 MHz	881.6 MHz	893.8 MHz
WCDMA/HS	Тх	Channel 4132	Channel 4182	Channel 4233
DPA	(824 MHz ~849 MHz)	826.4 MHz	836.4 MHz	846.6 MHz
	Rx	Channel 4357	Channel 4407	Channel 4458
band V	(869 MHz ~894 MHz)	871.4 MHz	881.4 MHz	891.6 MHz
	Тх	Channel 512	Channel 661	Channel 810
GSM/GPRS	(1850 MHz ~1910 MHz)	1850.2MHz	1880.0 MHz	1909.8 MHz
1900MHz	Rx	Channel 512	Channel 661	Channel 810
	(1930 MHz ~1990 MHz)	1930.2 MHz	1960.0 MHz	1989.8 MHz
WCDMA/HS	Тх	Channel 9262	Channel 9400	Channel 9538
DPA	(1850 MHz ~1910 MHz)	1852.4 MHz	1880.0 MHz	1907.6 MHz
	Rx	Channel 9662	Channel 9800	Channel 9938
Band II	(1930 MHz ~1990 MHz)	1932.4 MHz	1960.0 MHz	1987.6 MHz

Test mode:

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Test Mode	Test Modes description	
GSM/TM1	GSM system,GSM,GMSK modulation	
GSM/TM2	GSM system,GPRS,GMSK modulation	
Test Mode	Test Modes description	
UMTS/TM1	WCDMA system,QPSK modulation	
UMTS/TM2	HSDPA system,QPSK modulation	

NOTE: The test mode(s) are selected according to relevant radio technology specifications.







6 General Information

6.1 Client Information

Applicant:	Proexpress Distributor LLC	
Address of Applicant:	11011 GREENWOOD AVE. N APT 5, SEATTLE, WA 98103.	
Manufacturer:	Proexpress Distributor LLC	100
Address of Manufacturer:	11011 GREENWOOD AVE. N APT 5, SEATTLE, WA 98103.	5.7

6.2 General Description of EUT

Product Name:	9.7 inch 3G	9.7 inch 3G Phone Tablet				
Model No.:	E97, E97 P	E97, E97 PRO, E97X, E97 PLUS, E970, E97 ULTIMATE				
Test Mode No.:	E97	(35)	(C.)			
Trade Mark:	Dragon Tou	uch, KINGPAD, KINGSLIM, AKASO				
EUT Supports Radios application:	GSM/GPRS 850MHz/1900MHz WCDMA/HSDPA Band V/Band II					
Power Supply:	Adapter:	Model: WTA0502000USB1 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V=2000mA		641		
	Battery:	Li-ion 3.7V/6000mAH				
Sample Received Date:	Jul. 22, 2015					
Sample tested Date:	Jul. 22, 201	Jul. 22, 2015 to Dec. 30, 2015				

6.3 Product Specification subjective to this standard

•	•
Frequency Band:	GSM/GPRS 850: Tx:824.20 -848.80MHz; Rx: 869.20 - 893.80MHz GSM/GPRS 1900: Tx:1850.20 - 1909.80MHz; Rx:1930.20 - 1989.80MHz WCDMA/HSDPA Band V: Tx:826.40 -846.60MHz; Rx: 871.40 - 891.60MHz WCDMA/HSDPA Band II: Tx:1852.40 - 1907.60MHz; Rx:1932.40 - 1987.60MHz
Modulation Type:	GSM/GPRS Mode with GMSK Modulation WCDMA Mode with QPSK Modulation
Sample Type:	Portable production
Antenna Type and Gain:	Type: Integral antenna Gain: GSM 850: -1.2dBi, GSM 1900: -1.4dBi, WCDMA 850: -1.15dBi, WCDMA 1900: -1.2dBi

6.4 Description of Support Units

The EUT has been tested independently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China518101

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

6.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:



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CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 565659

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 565659.

IC-Registration No.: 7408A

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A.

IC-Registration No.: 7408B

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B.

NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of

Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758



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6.7 Deviation from Standards

None.

6.8 Abnormalities from Standard Conditions

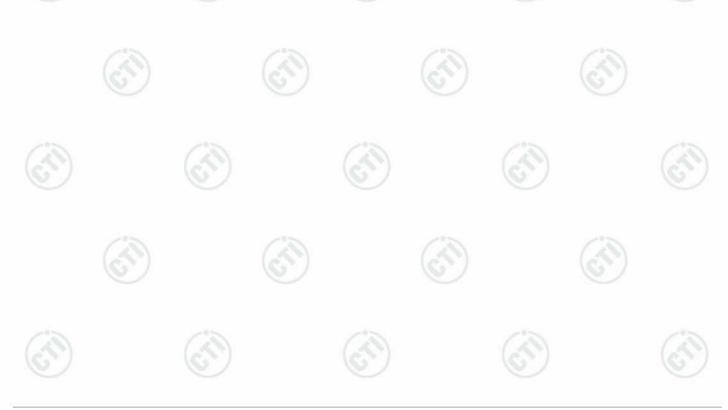
None.

6.9 Other Information Requested by the Customer

None.

6.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE names conducted	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
2	Dadiated Churiaus amission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
	Conduction aminaian	3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%







7 Equipment List

	Commu	unication RF tes	t system inst	rument	
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Agilent	E4440A	MY46185649	12-17-2015	12-15-2016
Signal Generator	Agilent	E4438C	MY45095744	04-19-2015	04-18-2016
Communication test set	Agilent	E5515C	GB47050533	01-13-2015	01-12-2016
Signal Generator	Keysight	E8257D	MY53401106	04-14-2015	04-13-2016
Communication test set	R&S	CMW500	152394	04-19-2015	04-18-2016
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18 NM12-0398-002		01-13-2015	01-12-2016
High-pass filter(5- 18GHz)	MICRO- TRONICS	SPA-F-63029-4		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX01CA09C L12-0395-001		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX01CA08C L12-0393-001		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX02CA04C L12-0396-002		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX02CA03C L12-0394-001	(C)	01-13-2015	01-12-2016
DC Power	Keysight	E3642A	MY54426112	03-31-2015	03-30-2016
DC Power	Keysight	E3642A	MY54426115	03-31-2015	03-30-2016
PC-2	Lenovo	R4960d		04-01-2015	03-31-2016
PC-3	Lenovo	R4960d		04-01-2015	03-31-2016
RF control unit	JS Tonscend	JS0806-1	20158060004	04-01-2015	03-31-2016
DC power Box	JS Tonscend	JS0806-4	20158060007	04-01-2015	03-31-2016
LTE Automatic test software	JS Tonscend	JSTS1120-1	(2)	04-01-2015	03-31-2016
WCDMA Automatic test software	JS Tonscend	JSTS1120-3	(a.)	04-01-2015	03-31-2016
GSM Automatic test software	JS Tonscend	JSTS1120-3		04-01-2015	03-31-2016















(ii)





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	Radiated	Spurious Emission	& Radiated Er	nission	
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	/	06-02-2013	06-01-2016
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-617	07-13-2015	07-29-2016
Microwave Preamplifier	Agilent	8449B	3008A02425	02-05-2015	02-04-2016
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Horn Antenna	ETS-LINDGREN	3117	00057407	07-20-2015	07-19-2016
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Log Test-Antenna	SCHWARZBECK	VULSP 9111B	TTF20120145	03-27-2015	26-03-2016
Biconical Antenna	SCHWARZBECK	VHBB9124+BBA910 6	TTF20120144	03-27-2015	03-26-2016
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-617	07-31-2015	07-29-2016
Spectrum Analyzer	R&S	FSP40	100416	06-30-2015	06-28-2016
Receiver	R&S	ESCI	100435	06-30-2015	06-28-2016
Multi device Controller	maturo	NCD/070/10711112	COT	01-13-2015	01-12-2016
LISN	schwarzbeck	NNBM8125	81251547	06-30-2015	06-28-2016
LISN	schwarzbeck	NNBM8125	81251548	06-30-2015	06-28-2016
Signal Generator	Agilent	E4438C	MY45095744	04-19-2015	04-18-2016
Signal Generator	Keysight	E8257D	MY53401106	04-14-2015	04-13-2016
Temperature/ Humidity Indicator	TAYLOR	1451	1905	07-08-2015	07-06-2016
Communication test set	Agilent	E5515C	GB47050533	01-13-2015	01-12-2016
Cable line	Fulai(7M)	SF106	5219/6A	01-13-2015	01-12-2016
Cable line	Fulai(6M)	SF106	5220/6A	01-13-2015	01-12-2016
Cable line	Fulai(3M)	SF106	5216/6A	01-13-2015	01-12-2016
Cable line	Fulai(3M)	SF106	5217/6A	01-13-2015	01-12-2016
Communication test set	R&S	CMW500	152394	04-19-2015	04-18-2016
High-pass filter(3- 18GHz)	Sinoscite	FL3CX03WG18NM1 2-0398-002	(01-13-2015	01-12-2016
High-pass filter(5- 18GHz)	MICRO- TRONICS	SPA-F-63029-4		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX01CA09CL12- 0395-001	COT	01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX01CA08CL12- 0393-001	6.7	01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX02CA04CL12- 0396-002		01-13-2015	01-12-2016
band rejection filter	Sinoscite	FL5CX02CA03CL12- 0394-001	(01-13-2015	01-12-2016









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8 Radio Technical Requirements Specification

Reference documents for testing:

CICIC	deterior documents for testing.							
No.	Identity	Document Title						
1	DADT 22 (2014)	PART 22 – PUBLIC MOBILE SERVICES						
1	PART 22 (2014)	Subpart H – Cellular Radiotelephone Service						
2	PART 24 (2014)	PART 24 – PERSONAL COMMUNICATIONS SERVICES						
	1 AIX1 24 (2014)	Subpart E – Broadband PCS						
3	PART 2 (2014)	Frequency allocations and radio treaty matters; general rules and regulations						
4	TIA-603-D-2010	Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards						
5	KDB971168 D01	KDB971168 D01 Power Meas License Digital Systems v02r02						

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part 2.1046(a)/Part 22.913(a)/ part 24.232(c)	ITA-603-D&KDB 971168 D01v02r02	Conducted output power	PASS	Appendix A)
Part 24.232(d)	KDB 971168 D01v02r02	peak-to-average ratio	PASS	Appendix B)
Part 2.1049(h)	Part 22.917(b)/ Part 24.238(b)&KDB 971168 D01v02r02	99% &26dBOccupied Bandwidth	PASS	Appendix C)
Part 2.1051/Part 22.917(a)/ Part 24.238(a)	Part 22.917(b)/ Part 24.238(b)&KDB 971168 D01v02r02	Band Edge at antenna terminals	PASS	Appendix D)
Part 2.1051/ Part 2.1057/ Part 22.917(a)(b)/ Part 24.238(a)(b)	ITA-603-D&KDB 971168 D01v02r02	Spurious emissions at antenna terminals	PASS	Appendix E)
Part 2.1055/ Part 22.355/ Part 24.235	ITA-603-D&KDB 971168 D01v02r02	Frequency stability	PASS	Appendix F)
Part 2.1053/ Part 2.1057/ Part 22.917(a)(b)/ Part 24.238(a)(b)	ITA-603-D&KDB 971168 D01v02r02	Field strength of spurious radiation	PASS	Appendix G)
Part 2.1046(a)/Part 22.913(a)/ Part 24.232(c)	ITA-603-D&KDB 971168 D01v02r02	Effective Radiated Power of Transmitter(ERP)	PASS	Appendix H)























Appendix A) RF Power Output

	7 40 10				
Test Requirement:	Part 2.1046(a)	(0,)	(6,		
Test Method:	TIA-603-D-201	TIA-603-D-2010 Clause 2.2.1			
Test Setup:	Refer to section	n 5 for details			
Limit:	Mode	GSM 850/WCDMA/HSDPA /HSUPA 850 Band V	GSM 1900/WCDMA/HSDPA /HSUPA 1900 Band V		
	Frequency	824 – 849MHz	1850 – 1910MHz		
	Limit	38.45dBm (ERP)	33.01dBm (EIRP)		
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.				
Instruments Used:	Refer to section 7 for details				
Test Results:	Pass	(0)			

Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH	32.03	38.5	PASS
CSMOSO	GSM/TM1	MCH	31.89	38.5	PASS
		HCH	31.92	38.5	PASS
GSM850		LCH	31.70	38.5	PASS
	GSM/TM2	MCH	31.60	38.5	PASS
		HCH	31.40	38.5	PASS
Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH	29.01	33	PASS
	GSM/TM1	MCH	28.83	33	PASS
GSM1900		HCH	28.61	33	PASS
		LCH	28.50	33	PASS
	GSM/TM2	MCH	28.00	33	PASS
	73	HCH	27.90	33	PASS





















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Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH	22.56	38.5	PASS
WCDMA850	UMTS/TM1	MCH	22.87	38.5	PASS
		HCH	22.77	38.5	PASS
Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH_SubTest-1	22.52	38.5	PASS
		LCH_SubTest-2	22.23	38.5	PASS
	O UMTS/TM2	LCH_SubTest-3	22.41	38.5	PASS
(2)		LCH_SubTest-4	22.35	38.5	PASS
		MCH_SubTest-1	22.86	38.5	PASS
WCDMA850		MCH_SubTest-2	22.66	38.5	PASS
WCDIVIA650	UIVIT 5/TIVIZ	MCH_SubTest-3	22.54	38.5	PASS
	Cil	MCH_SubTest-4	22.75	38.5	PASS
		HCH_SubTest-1	22.62	38.5	PASS
		HCH_SubTest-2	22.53	38.5	PASS
- 100		HCH_SubTest-3	22.65	38.5	PASS
		HCH_SubTest-4	22.48	38.5	PASS
16.4	·	March Co. V.	V ICAC T	18.6	

Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH	22.60	33	PASS
WCDMA1900	UMTS/TM1	MCH	22.85	33	PASS
	(6,	HCH	22.61	33	PASS

Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH_SubTest-1	22.41	33	PASS
(3)		LCH_SubTest-2	-1 22.41 33 -2 22.23 33 -3 22.11 33 -4 22.35 33 -1 22.56 33 -2 2.65 33 -2 2.44 33 -4 22.46 33 -1 22.42 33 -1 22.42 33 -2 22.13 33 -3 22.65 33	PASS	
		LCH_SubTest-3	22.11	33	PASS
		LCH_SubTest-4	22.35	33	PASS
		MCH_SubTest-1	22.56	33	PASS
WCDMA1900	UMTS/TM2	MCH_SubTest-2	22.65	33	PASS
VVCDIVIA 1900	OIVITS/TIVIZ	MCH_SubTest-3	22.44	33	PASS
		MCH_SubTest-4	22.46	33	PASS
		HCH_SubTest-1	22.42	33	PASS
(36)		HCH_SubTest-2	22.13	33	PASS
		HCH_SubTest-3	22.65	33	PASS
		HCH_SubTest-4	22.28	33	PASS



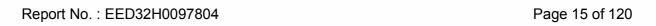












Appendix B) Peak-to-Average Ratio

Test Requirement:	Part 24.232(d)
Test Method:	KDB 971168 D01
Test Setup:	Refer to section 5 for details
Limit:	43+10log(P)
Measurement Procedure:	Use one of the procedures to measure the total peak power and record as PPk. Use one of the applicable procedures to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from: PAPR (dB) = PPk (dBm) - PAvg (dBm).
Instruments Used:	Refer to section 7 for details
Test Results:	Pass

	A STATE OF THE STA				
Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
		LCH	0.12	13	PASS
	GSM/TM1	MCH	0.14	13	PASS
00144000		НСН	0.15	13	PASS
GSM1900	GSM/TM2	LCH	0.12	13	PASS
		MCH	0.12	13	PASS
		НСН	0.16	13	PASS

Test Band	Test Mode	Test Channel	Measured (dBm)	Limit (dBm)	Verdict
(61)	(65)	LCH	2.66	13	PASS
WCDMA1900	UMTS/TM1	MCH	2.99	13	PASS
		НСН	3.06	13	PASS





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Appendix C) BandWidth

NAME OF THE PROPERTY OF THE PR	
Test Requirement:	Part 2.1049(h) and RSS-Gen 4.6.1
Test Method:	Part 22.917(b)/Part 24.238(b) and RSS-Gen 4.6.1
Test Setup:	Refer to section 5 for details
Limit:	N/A
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel) the resolution bandwidth of the analyser is set to 100kHz or 1% of the emission bandwidth, the EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.
Instruments Used:	Refer to section 7 for details
Test Results:	Pass

Test Band	Test Mode	Test Channel	99% Occupied Bandwidth (KHZ)	26dB Emission Bandwidth (KHZ)	Verdict
GSM850	GSM/TM1	LCH	248.01	301.15	PASS
		MCH	256.37	320.37	PASS
		НСН	244.04	293.12	PASS
		LCH	250.58	311.33	PASS
	GSM/TM2	MCH	247.24	310.41	PASS
		нсн	242.29	311.42	PASS

Test Band	Test Mode	Test Channel	99% Occupied Bandwidth (KHZ)	26dB Emission Bandwidth (KHZ)	Verdict
GSM1900		LCH	247.70	292.02	PASS
	GSM/TM1	MCH	253.29	325.22	PASS
		HCH	246.25	301.74	PASS
		LCH	250.88	311.15	PASS
	GSM/TM2	MCH	246.67	311.44	PASS
		HCH	243.24	309.77	PASS



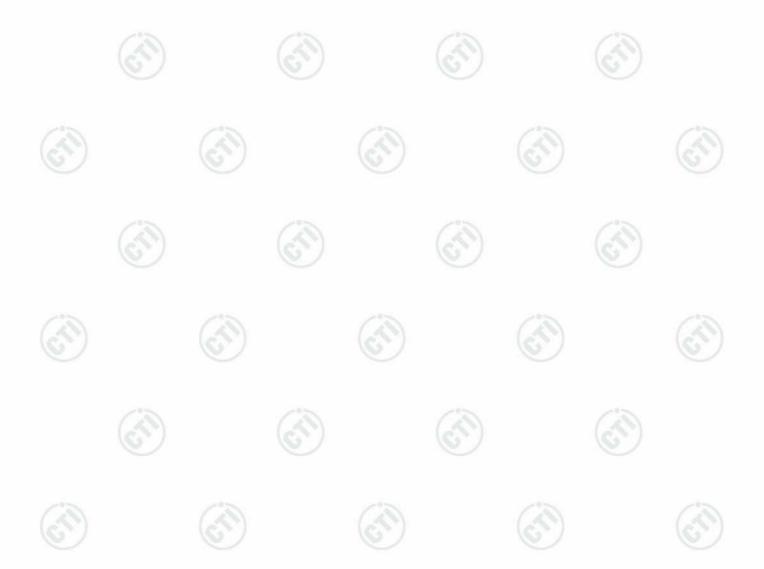






Test Band	Test Mode	Test Channel	99% Occupied Bandwidth (KHZ)	26dB Emission Bandwidth (KHZ)	Verdict
WCDMA850		LCH	4167.2	4682	PASS
	UMTS/TM1	MCH	4150.3	4690	PASS
		НСН	4143.4	4661	PASS

Test Band	Test Mode	Test Channel	99% Occupied Bandwidth (KHZ)	26dB Emission Bandwidth (KHZ)	Verdict
WCDMA1900		LCH	4172.2	4709	PASS
	UMTS/TM1	MCH	4159.0	4684	PASS
	(41)	HCH	4152.8	4689	PASS





(4)

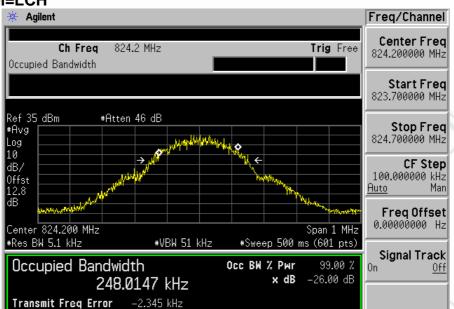




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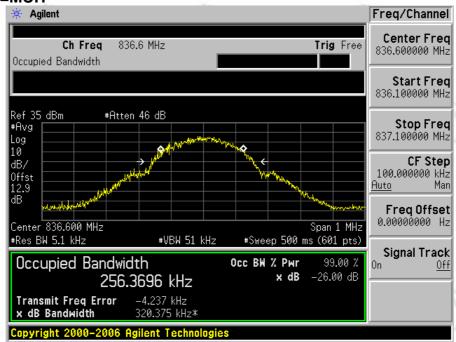
For GSM
Test Band=GSM850
Test Mode=GSM/TM1
Test Channel=LCH



301.153 kHz*

Test Channel=MCH

x dB Bandwidth















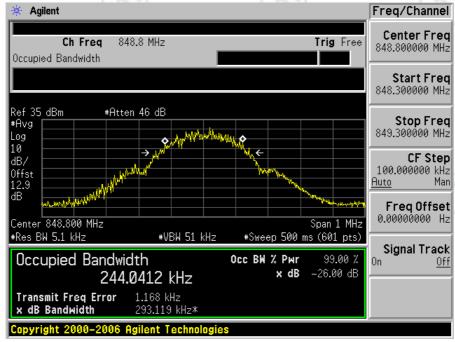
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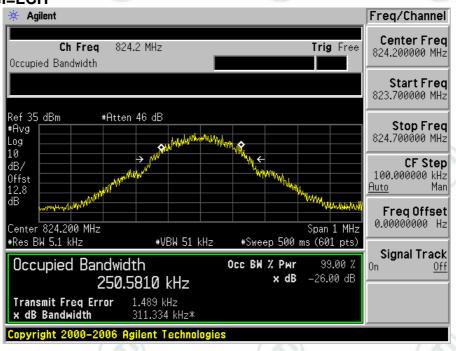


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Test Channel=HCH



Test Mode=GSM/TM2 Test Channel=LCH













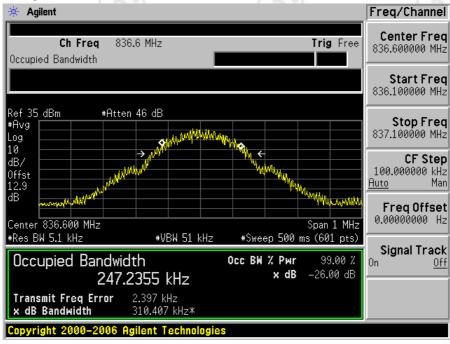




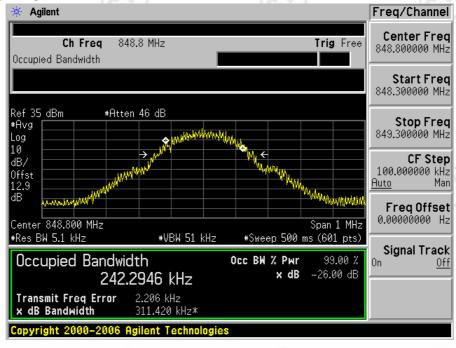


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Test Channel=MCH



Test Channel=HCH



















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Report No.: EED32H0097804

Test Band=GSM1900 Test Mode=GSM/TM1 Test Channel=LCH





Test Channel=MCH















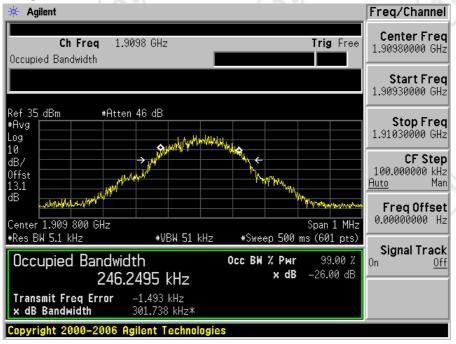




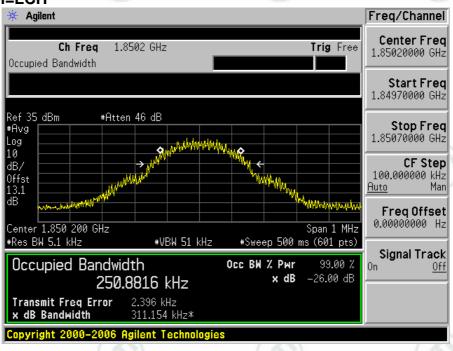
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Report No.: EED32H0097804

Test Channel=HCH



Test Mode=GSM/TM2 Test Channel=LCH





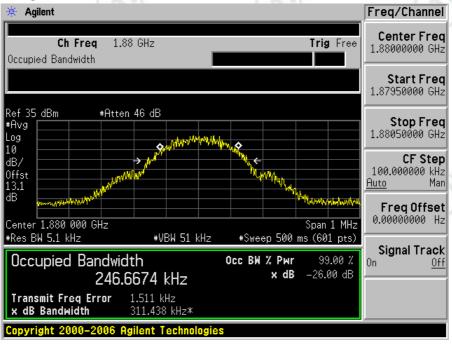




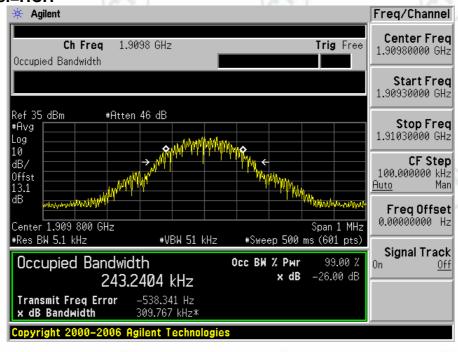


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Test Channel=MCH



Test Channel=HCH















(ii)





Report No.: EED32H0097804

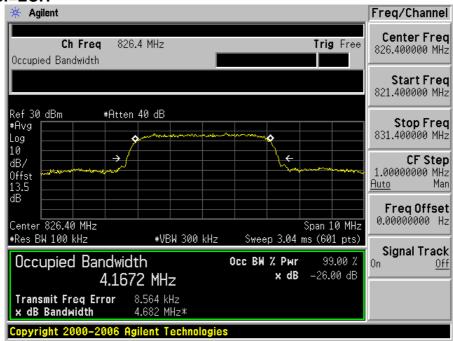
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For WCDMA

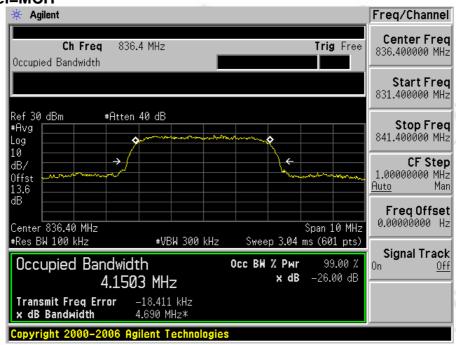
Test Band=WCDMA850

Test Mode=UMTS/TM1

Test Channel=LCH



Test Channel=MCH

















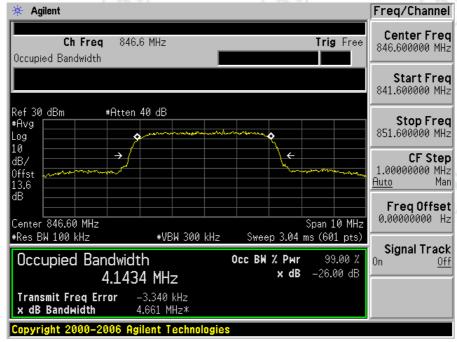




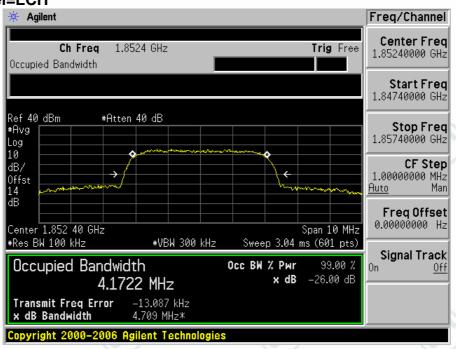
Report No.: EED32H0097804

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Test Channel=HCH



Test Band=WCDMA1900 Test Mode=UMTS/TM1 Test Channel=LCH







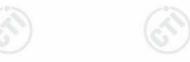






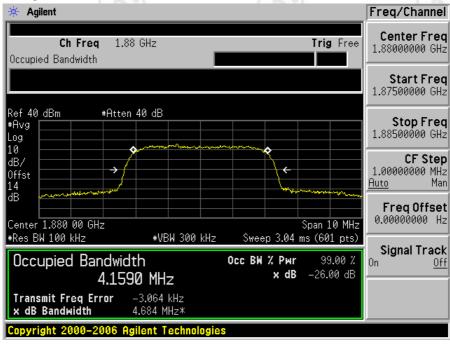




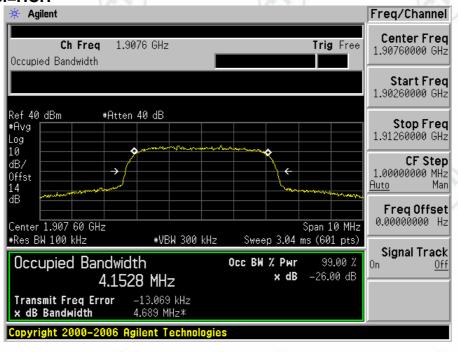


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Test Channel=MCH



Test Channel=HCH









Appendix D) Band Edges Compliance

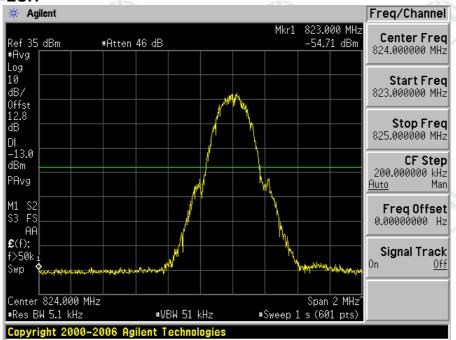
Test Results:	Pass				
Instruments Used:	Refer to section 7 for details				
	GSM/GPRS/EDGE/ WCDMA 1900	Below 1850 and above 1910	Attenuated at least 43+10log(P)		
	GSM/GPRS/EDGE/ WCDMA 850	Below 824 and above 849	Attenuated at least 43+10log(P)		
Limit:	Operation Band	Frequency Range (MHz)	Limit		
Measurement Procedure:	The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.				
Test Setup:	Refer to section 5 for details				
Test Method:	Part 22.917(b)/Part 24.238(b) and RSS-132 Clause 4.5/RSS-133 Clause 6.5				
Test Requirement:	Part 2.1051 and RSS-132 Cla	ause 4.5/RSS-133 Clau	se 6.5		

For GSM

Test Band=GSM850

Test Mode=GSM/TM1

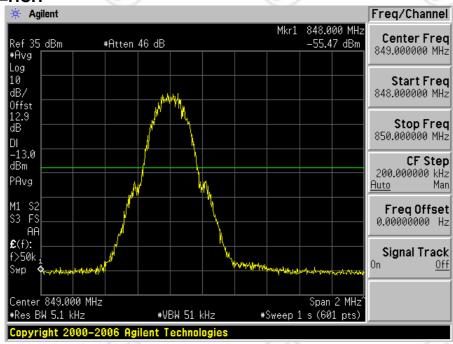
Test Channel=LCH



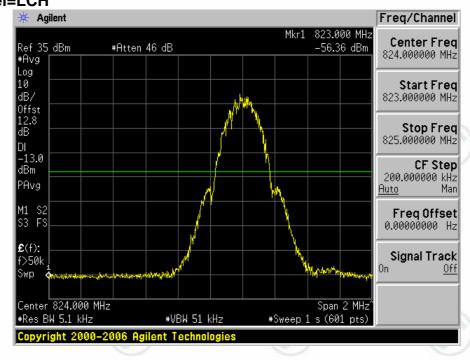


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Test Channel=HCH



Test Mode=GSM/TM2 Test Channel=LCH





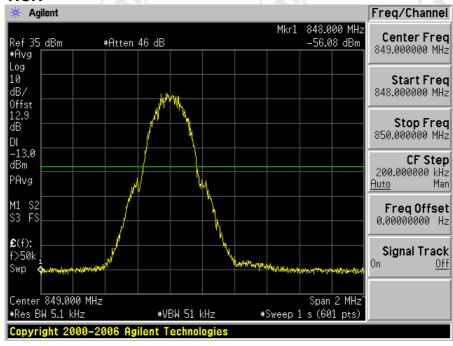




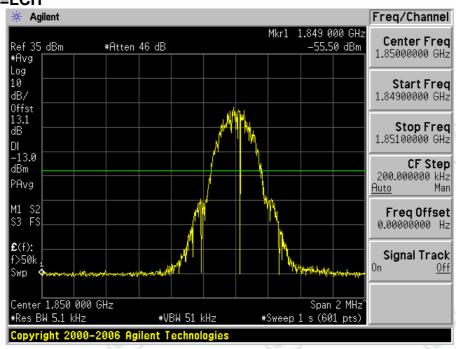


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Test Channel=HCH



Test Band=GSM1900 Test Mode=GSM/TM1 Test Channel=LCH





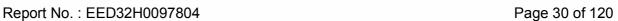




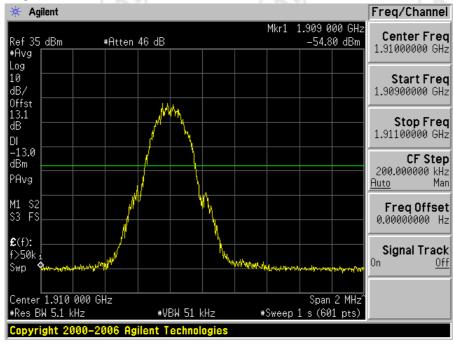




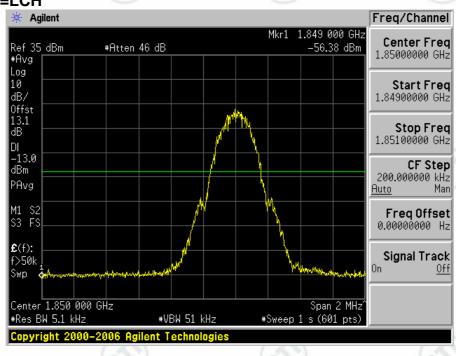




Test Channel=HCH



Test Mode=GSM/TM2 Test Channel=LCH

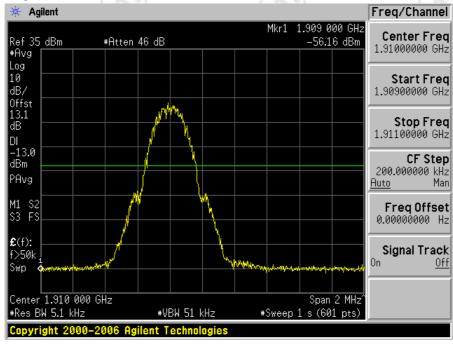








Test Channel=HCH



For WCDMA
Test Band=WCDMA850
Test Mode=UMTS/TM1
Test Channel=LCH



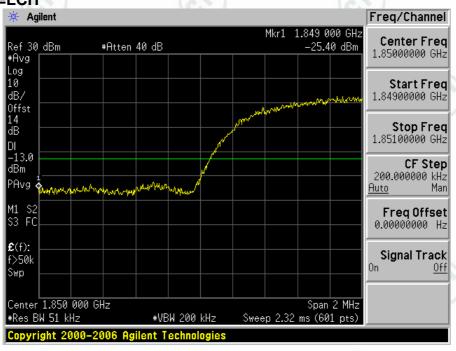


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Test Channel=HCH



Test Band=WCDMA1900
Test Mode=UMTSTM1
Test Channel=LCH





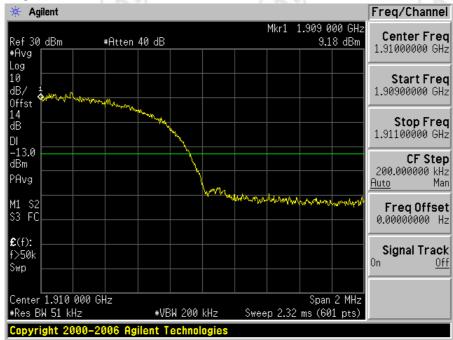






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Test Channel=HCH





























































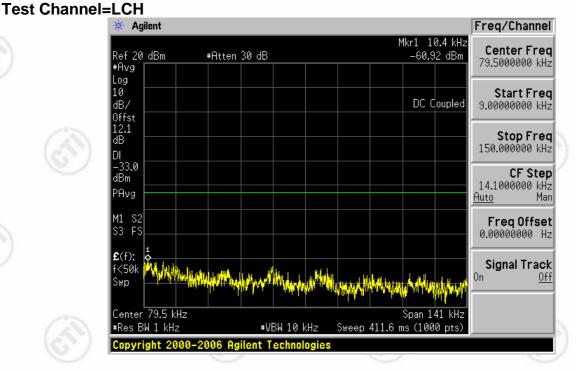


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Appendix E) Spurious Emission at Antenna Terminal

Clause 6.5
· ·
al cable, attenuator inected to a Base orce the EUT to its be frequencies (low 0GHz: to the tenth 0GHz.whichever is s set at 100kHz for s emissions above a set at thrice the erage power.
7 °5
(25)
or e 0 s s

For GSM
Test Band=GSM850
Test Mode=GSM/TM1















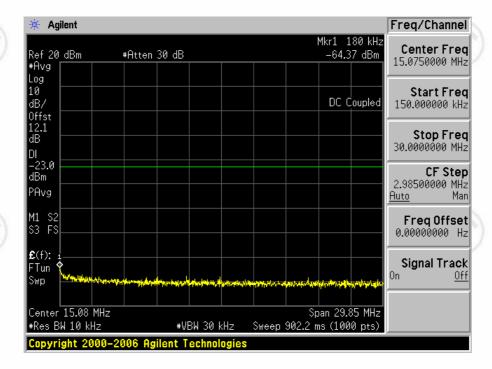


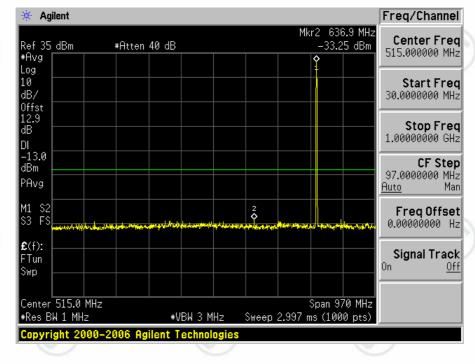




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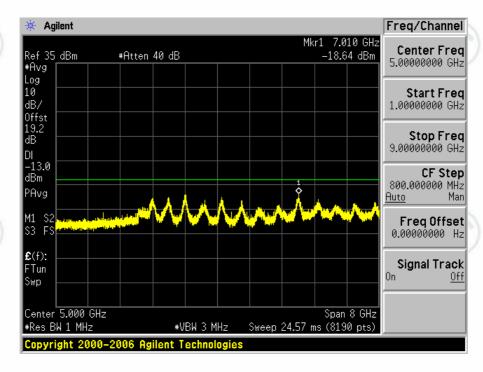




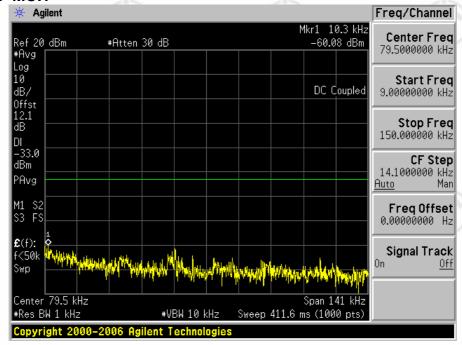


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Test Channel=MCH



















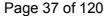


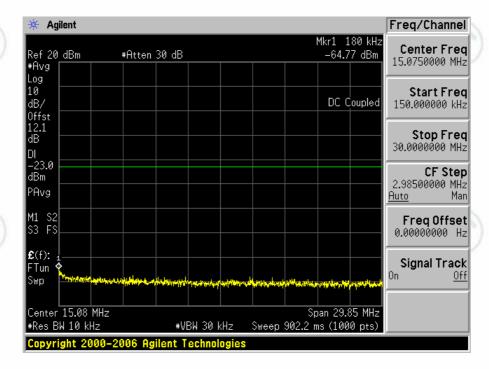


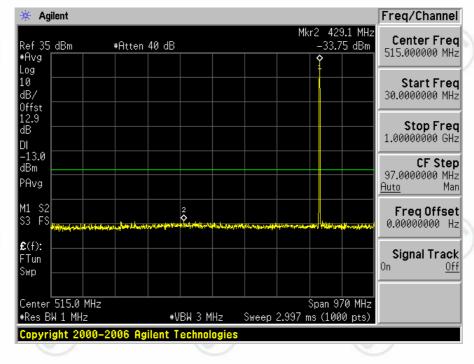






























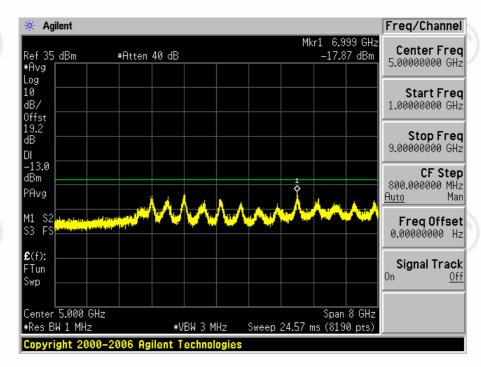




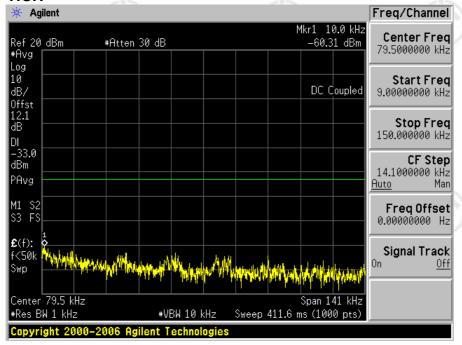




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Test Channel=HCH











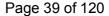


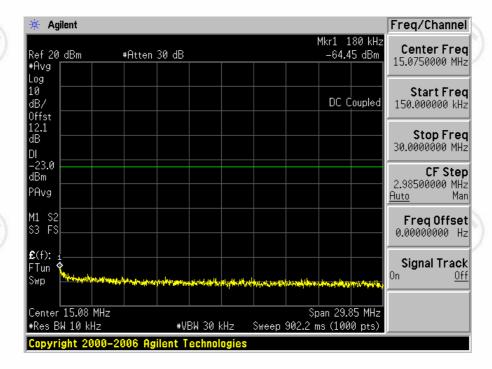


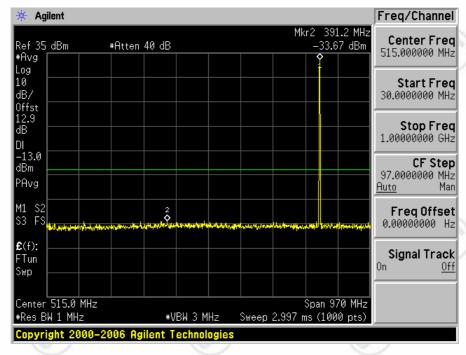




























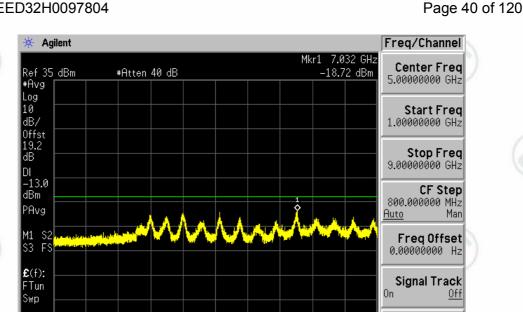








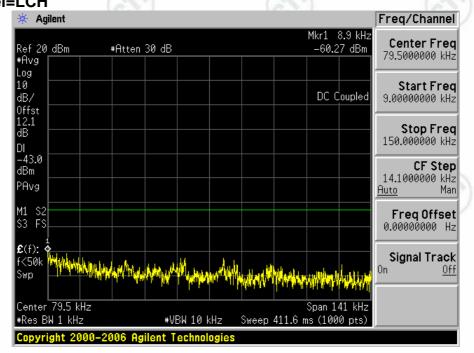




Span 8 GHz Sweep 24.57 ms (8190 pts)

Test Mode=GSM/TM2 Test Channel=LCH

Center 5.000 GHz #Res BW 1 MHz













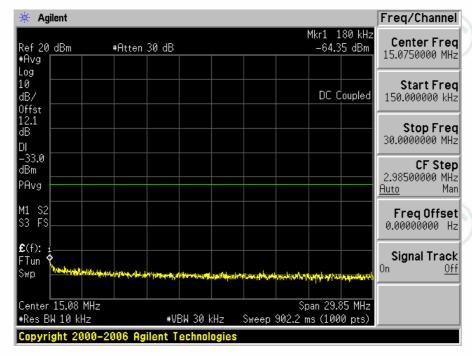


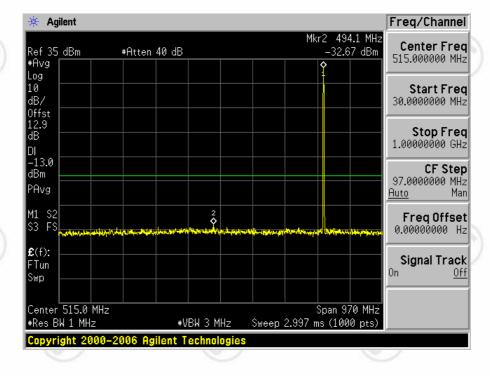






























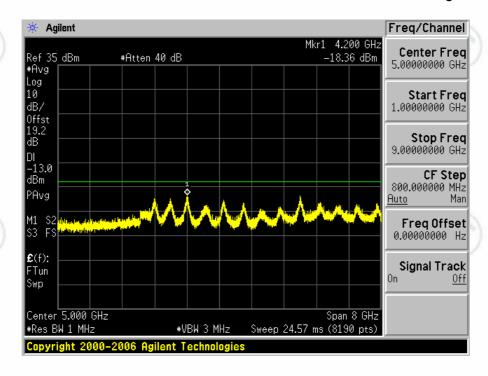




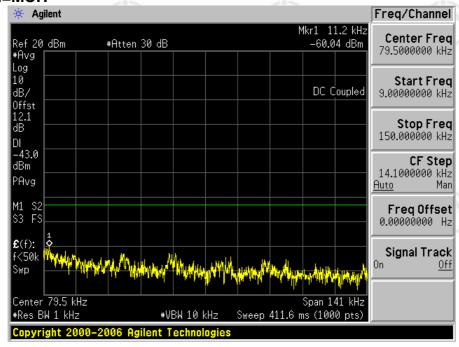




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Test Channel=MCH





















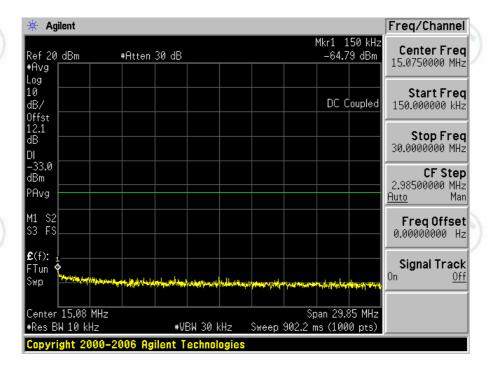


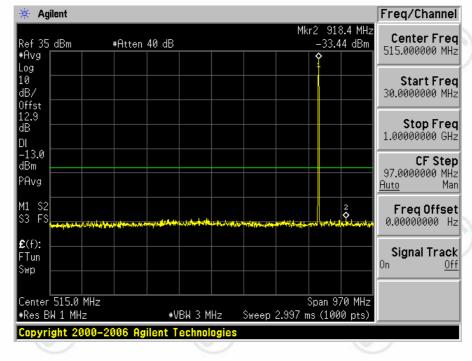






























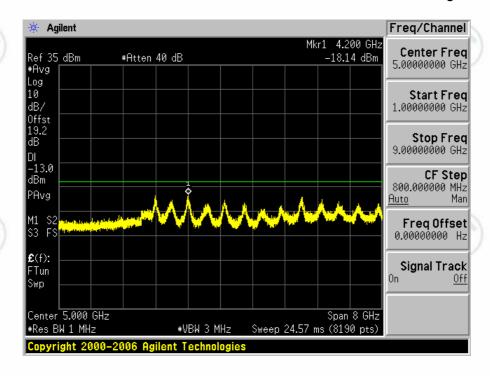




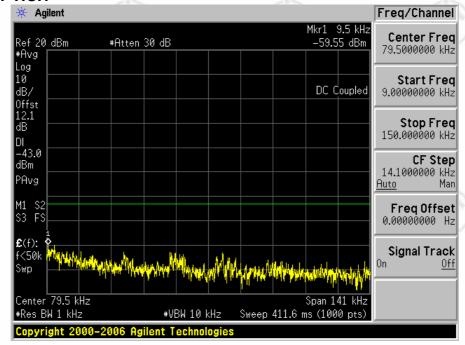








Test Channel=HCH





















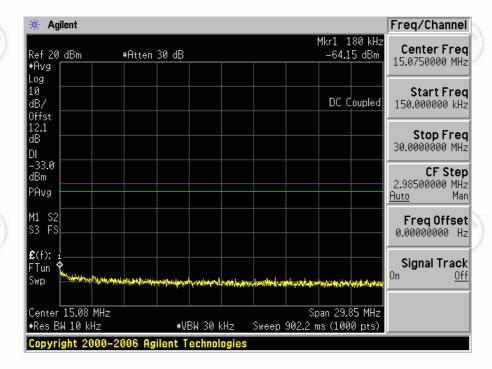


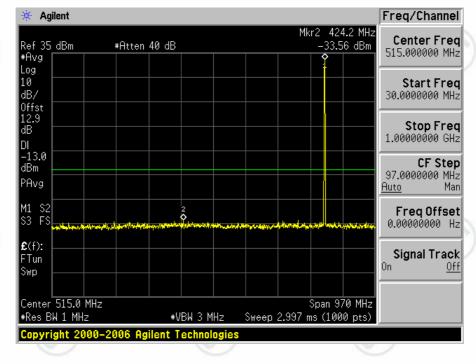






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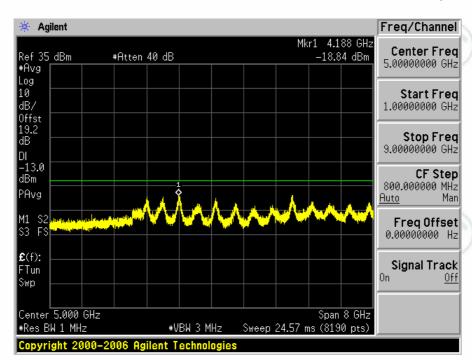




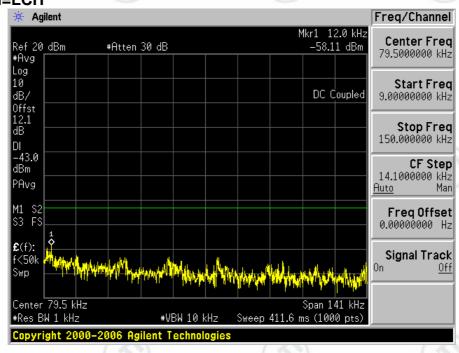


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Test Band=GSM1900 Test Mode=GSM/TM1 Test Channel=LCH













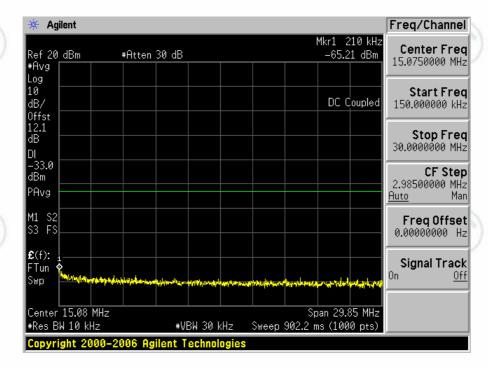


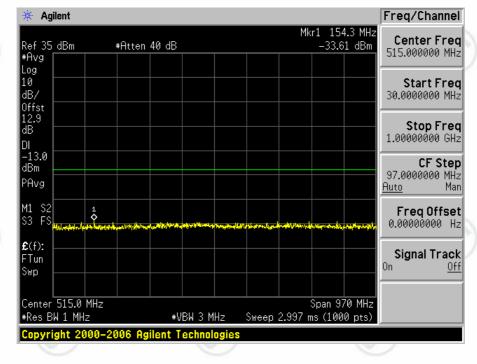






























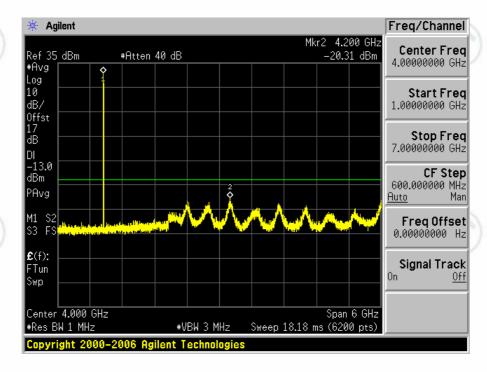


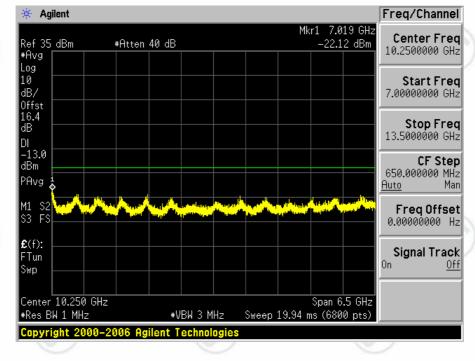






























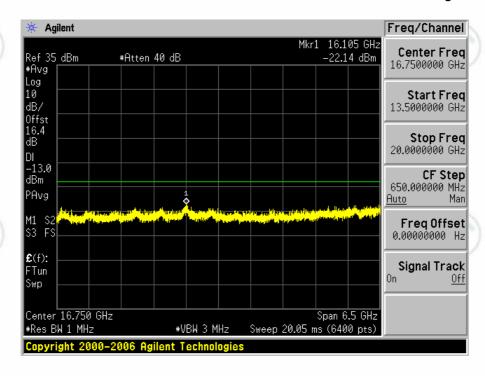




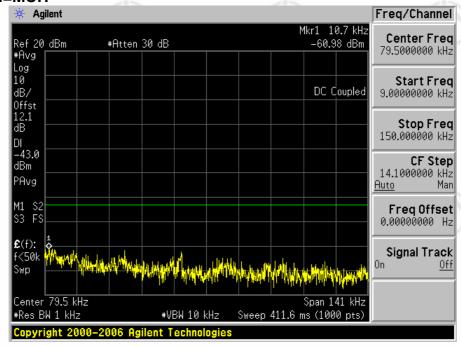




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Test Channel=MCH













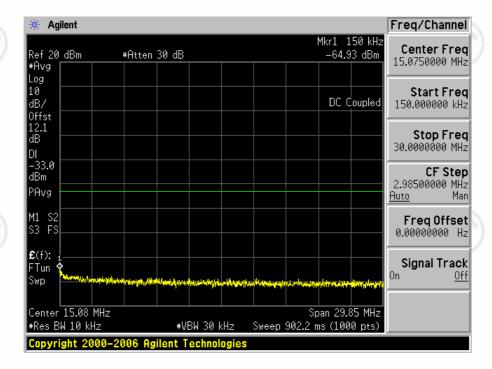


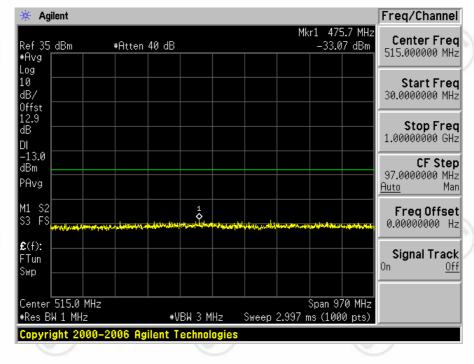






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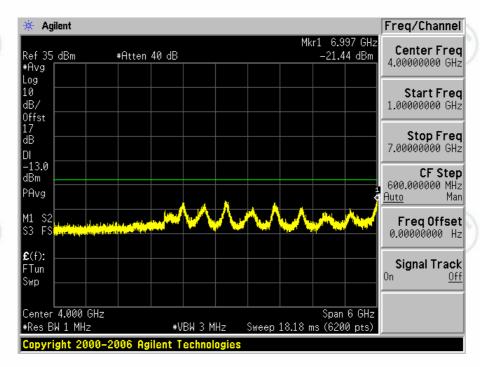


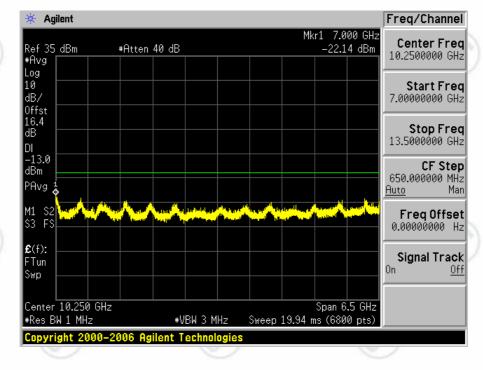




























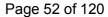


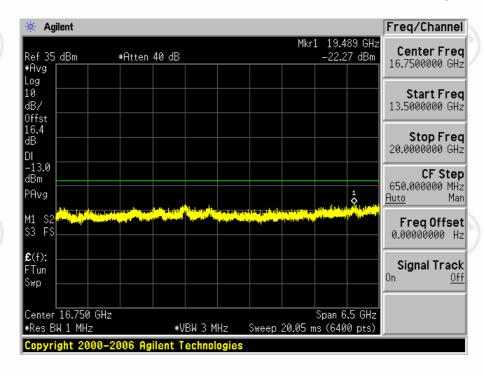




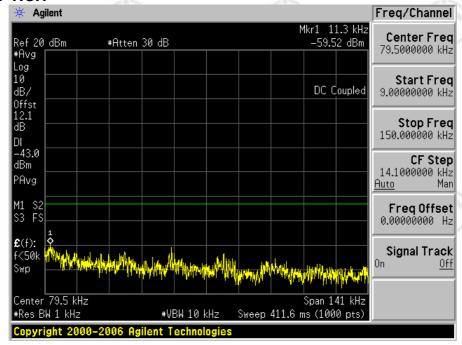








Test Channel=HCH























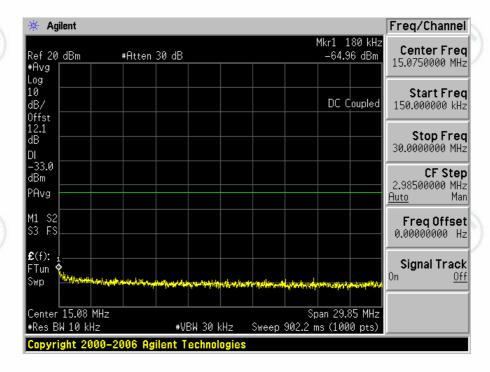


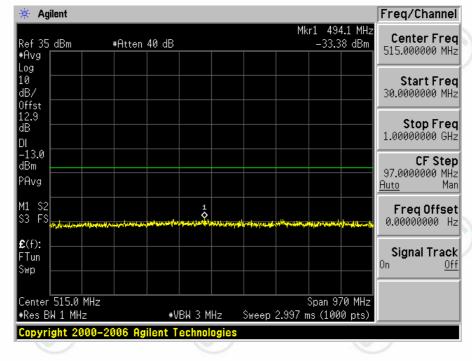






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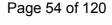


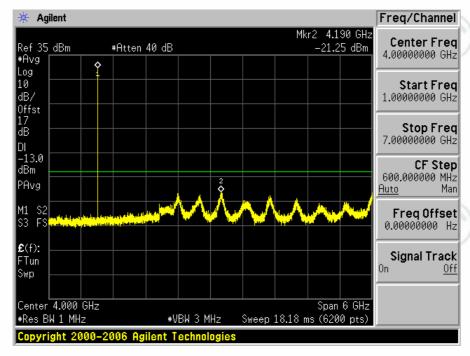


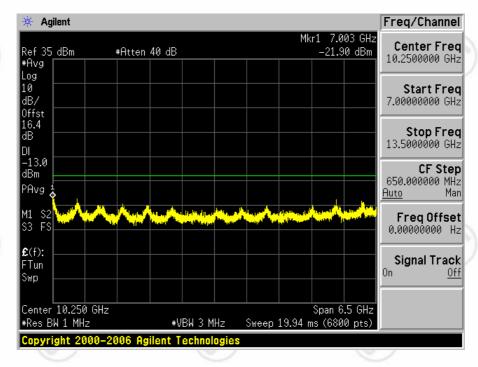






























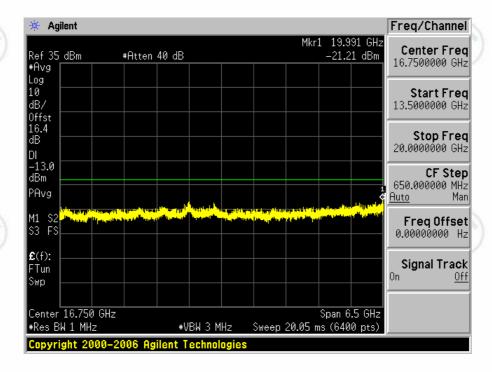




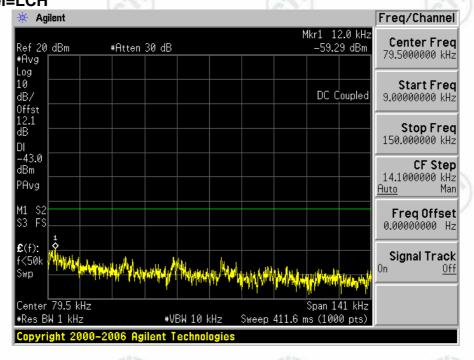




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Test Mode=GSM/TM2 Test Channel=LCH













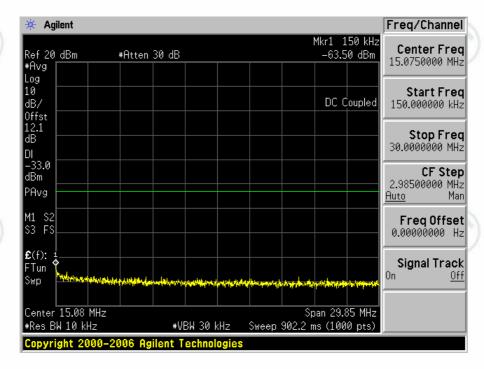


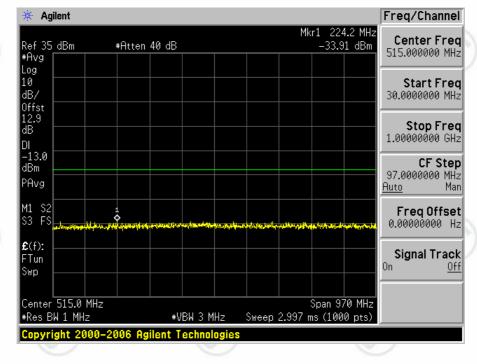




























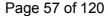


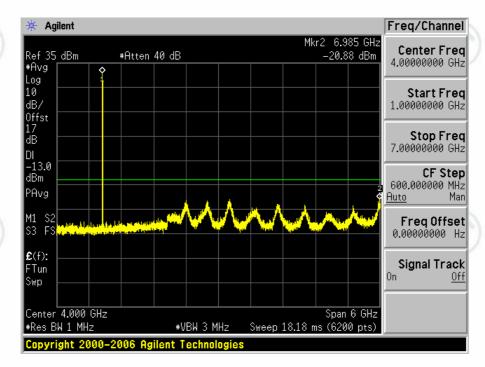


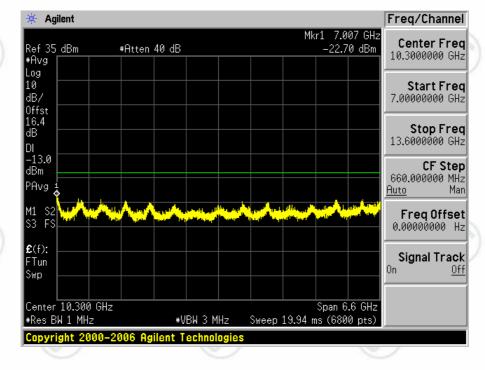






























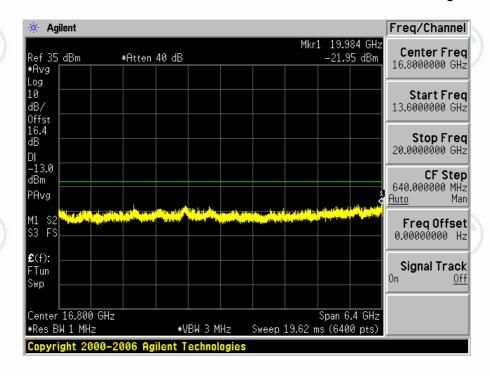




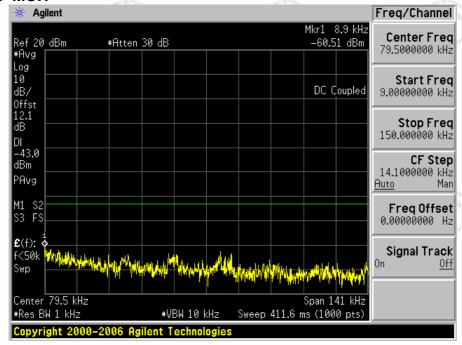




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Test Channel=MCH























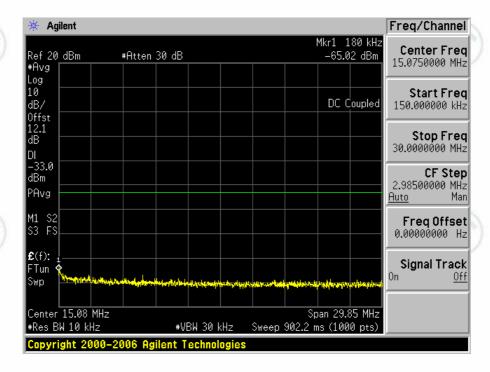


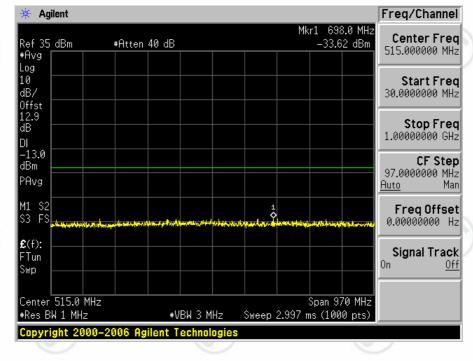
































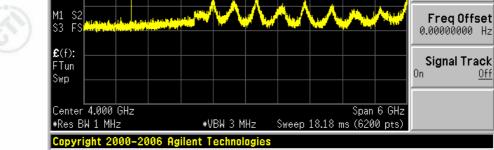


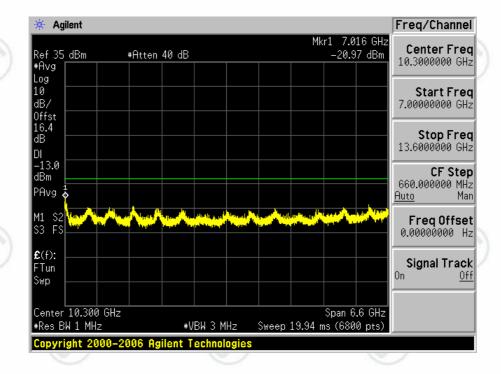




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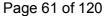


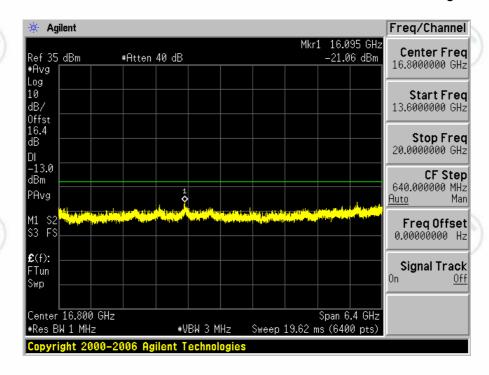




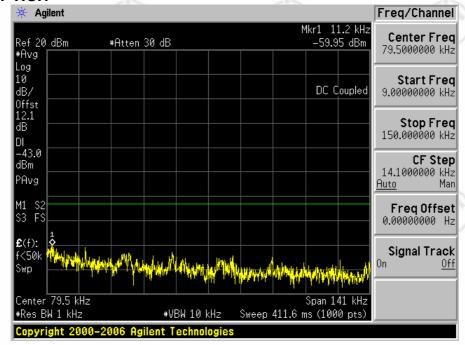








Test Channel=HCH





















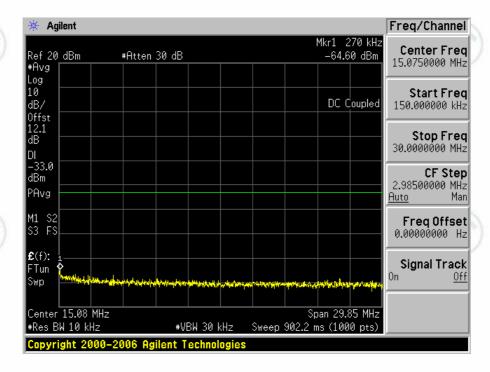


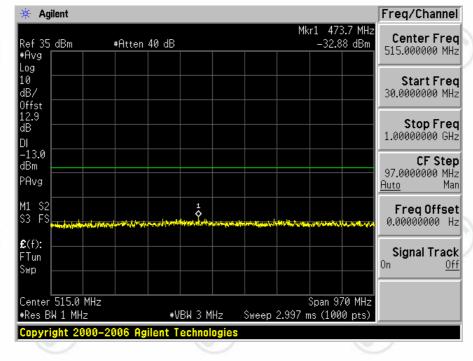






























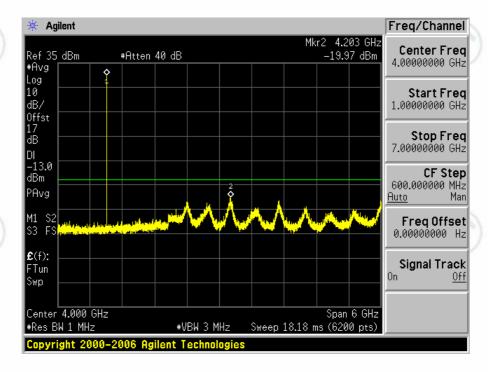


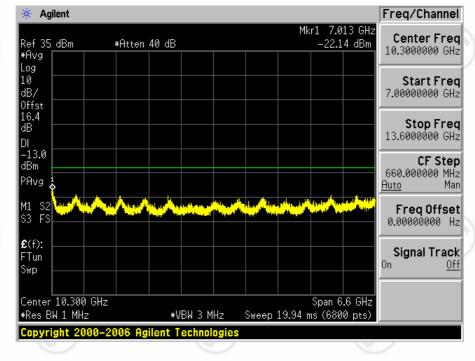






























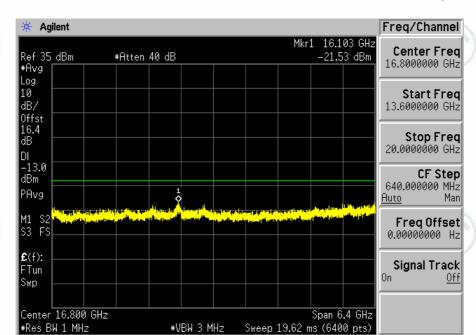




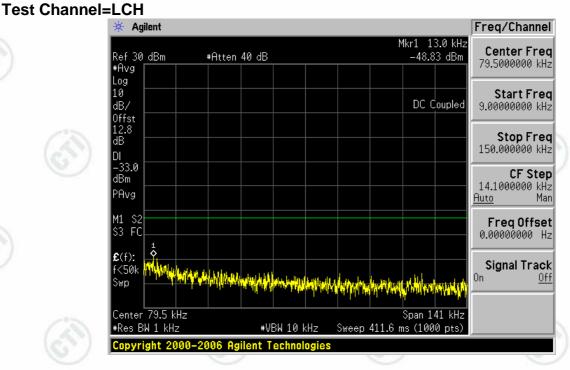


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Report No.: EED32H0097804



For WCDMA
Test Band=WCDMA850
Test Mode=UMTS/TM1











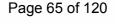


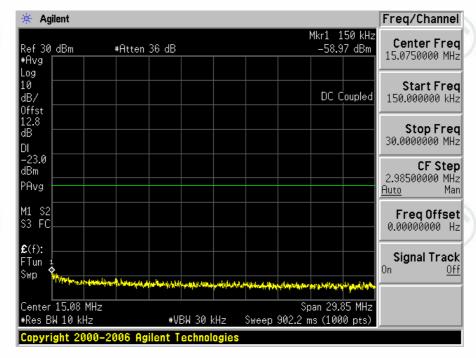


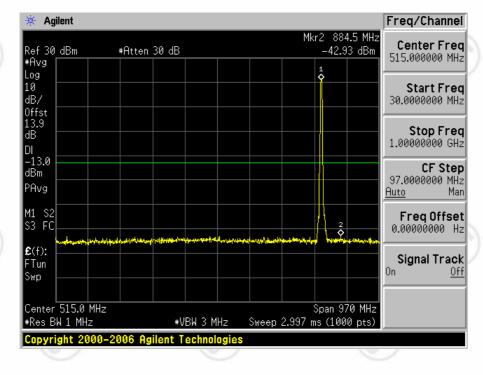






























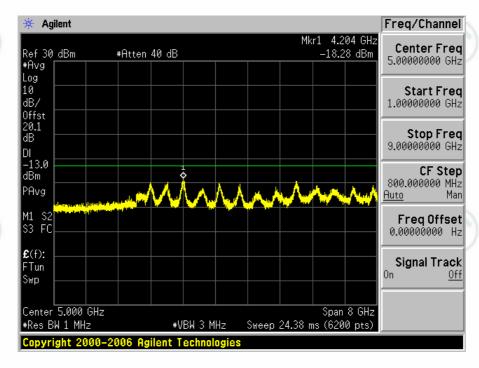




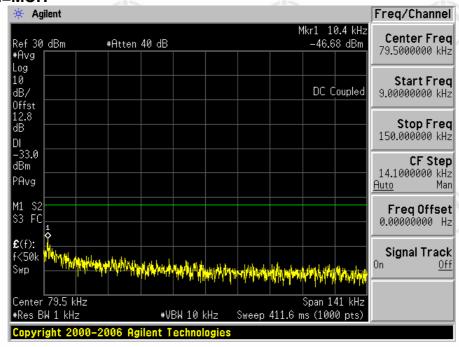








Test Channel=MCH





















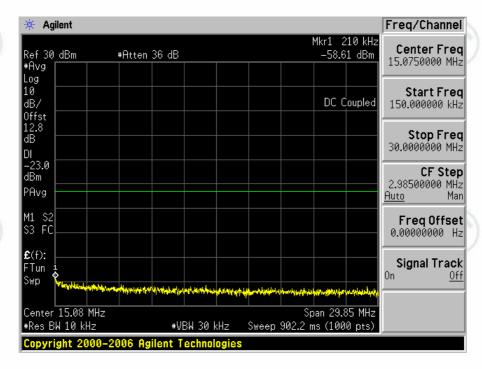


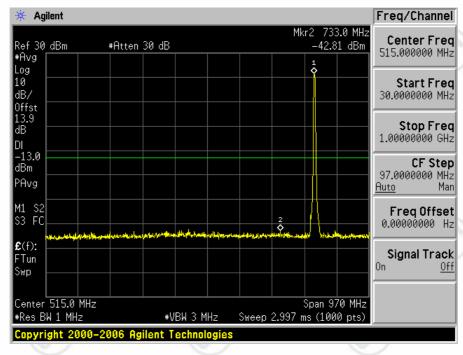






























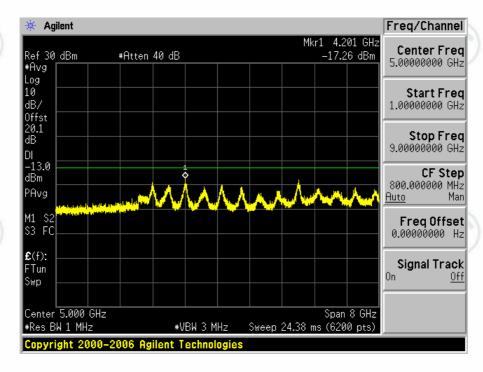




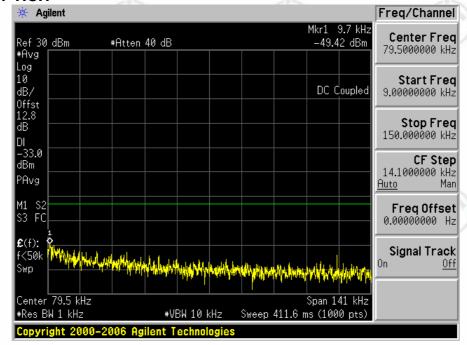




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Test Channel=HCH



















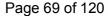


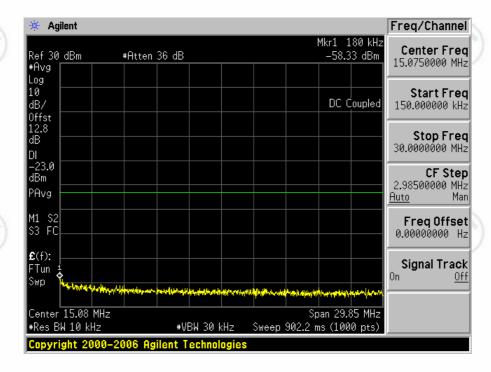


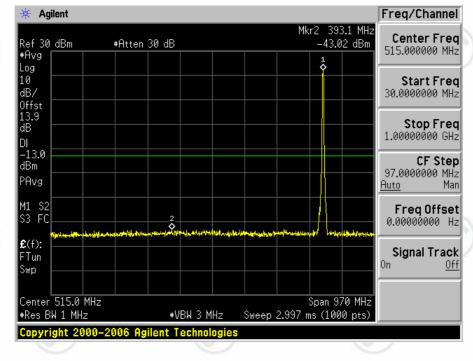


























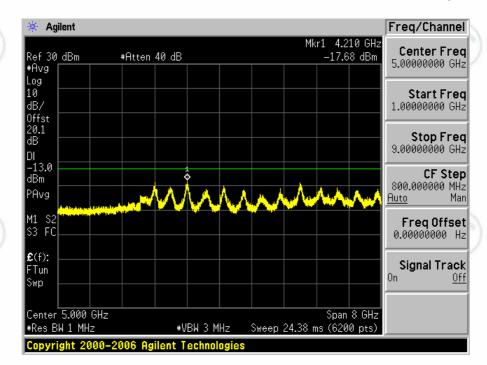




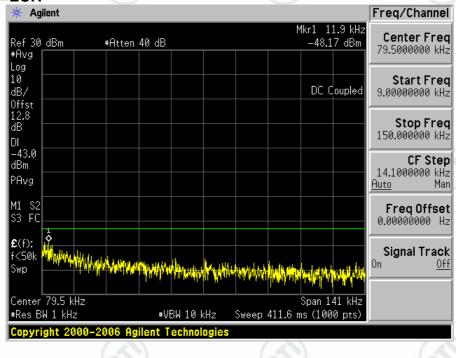








Test Band=WCDMA1900
Test Mode=UMTS/TM1
Test Channel=LCH











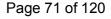


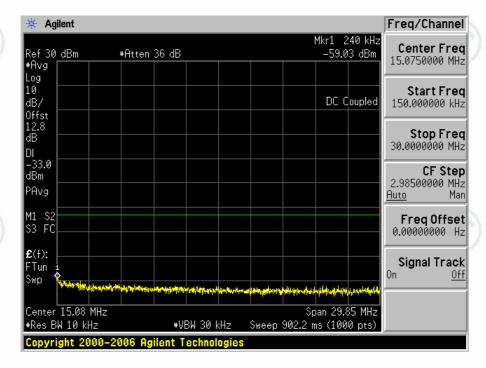


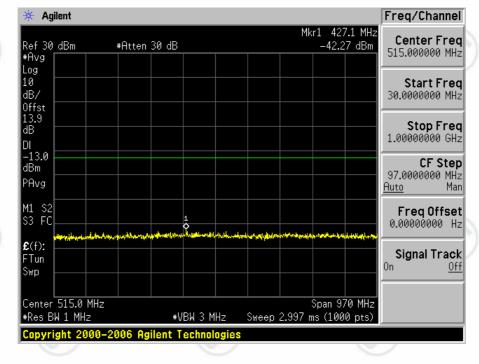






























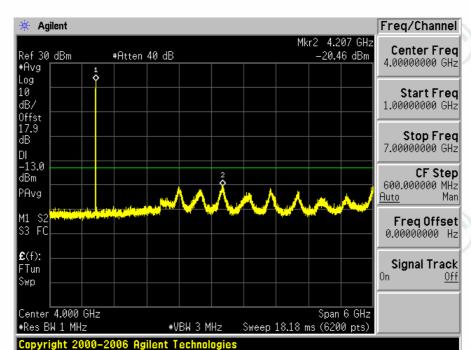


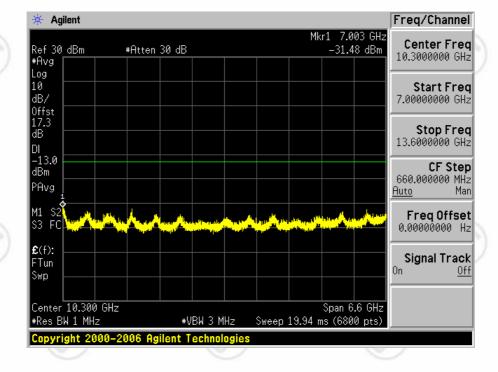






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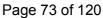


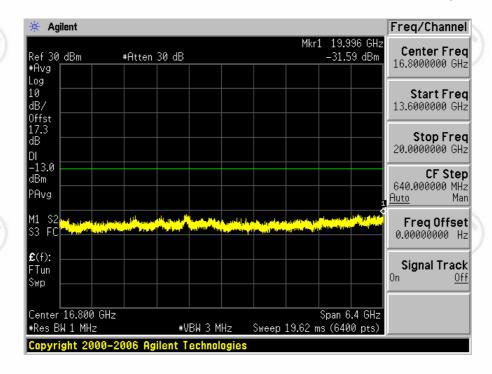




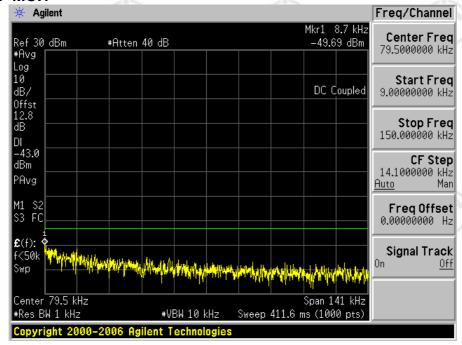








Test Channel=MCH













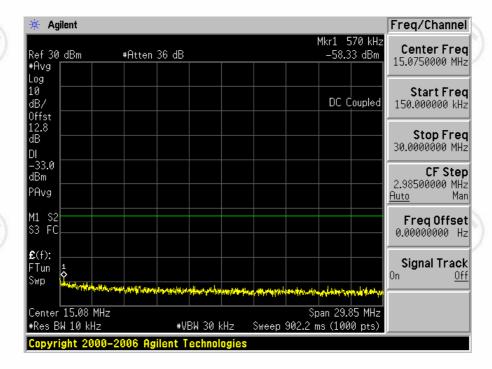


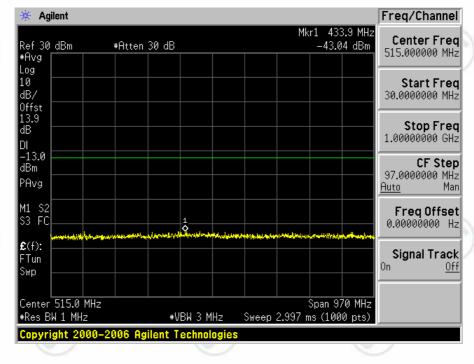






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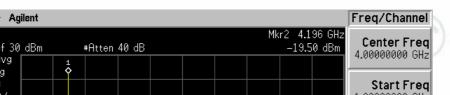


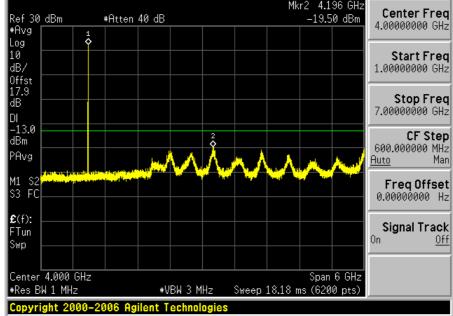


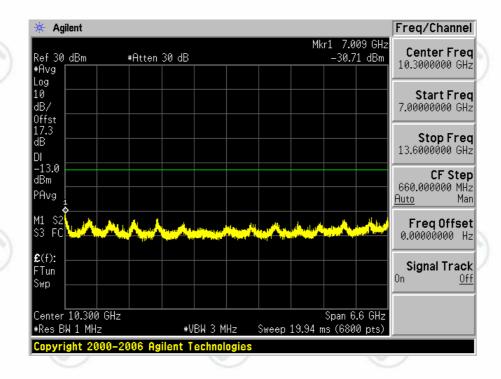




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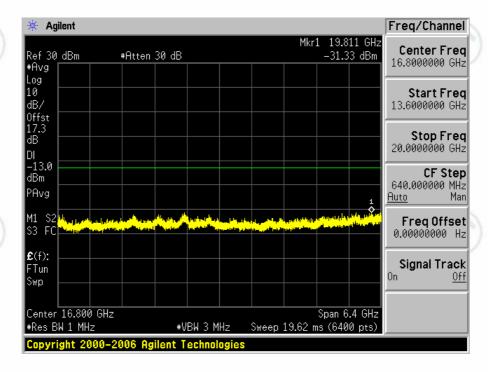




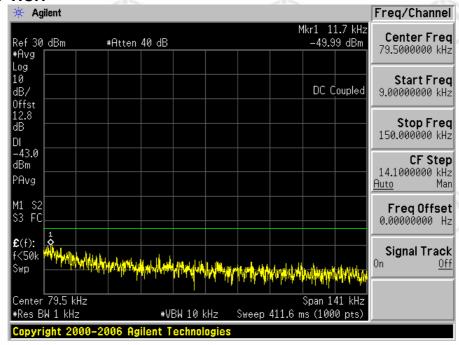




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Test Channel=HCH



















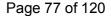


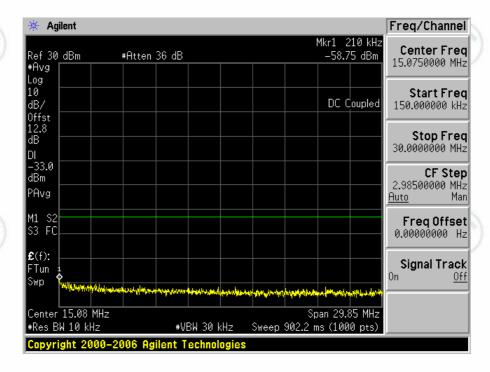


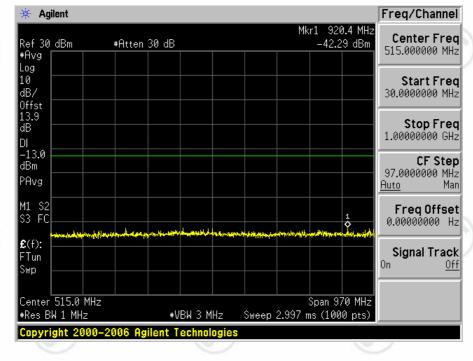




























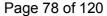


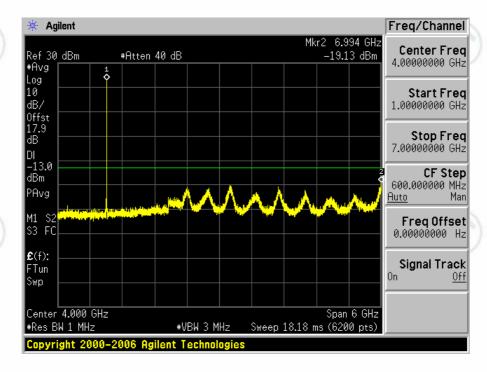


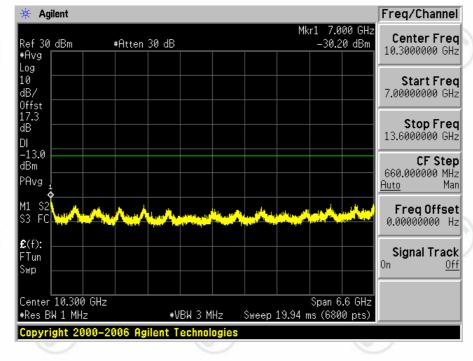






























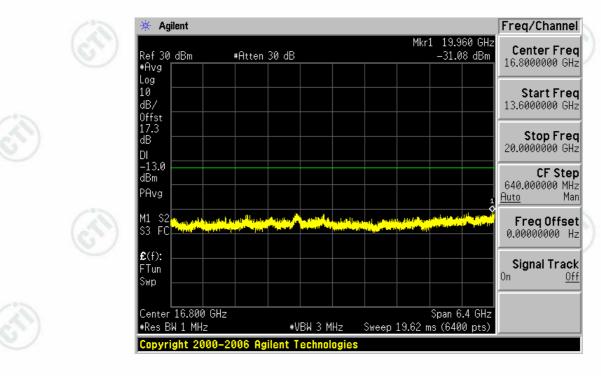








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Appendix F) Frequency Stability

Appoilaix i j i ioq	district Statistics						
Test Requirement:	Part 2.1055 and RSS-132 Clause 4.3	3/RSS-133 Clause 6.3					
Test Method:	TIA-603-D-2010 Clause 2.2.2 and RS	SS-Gen Clause 4.7					
Test Setup:	Refer to section 5 for details						
Measurement Procedure:	Station Simulator. The Base Station maximum power setting. The tests we channel and high channel). The EUT the DC leads and RF output cable made for that purpose. After Operate 15 minutes before proceeding. The +50°C at intervals of not more than 1	d to a calibrated coaxial cable and a Base Simulator was set to force the EUT to its were performed at three frequencies (low was place in the temperature chamber, exited the chamber though an opening the equipment in standby conditions for temperature was varied from -30°C to 0°C The frequency stability was read from voltage was varied +/-15%, the frequency.					
Instruments Used:	Refer to section 7 for details						
Limit:	Operation Band	Frequency stability Limit(ppm)					
	GSM/GPRS/EDGE/WCDMA 850	±2.5ppm					
	GSM/GPRS/EDGE/WCDMA 1900						
Test Results:	Pass						

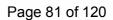
Frequency Error vs. Voltage:

requerie	y Liioi	VS. VOILE	ige.					
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			TN	VL	-0.26	0.00	±2.5	PASS
10.		LCH	TN	VN	-1.23	0.00	±2.5	PASS
		(C)	TN	VH	2.39	0.00	±2.5	PASS
			TN	VL	3.42	0.00	±2.5	PASS
GSM850	TM1	MCH	TN	VN	3.87	0.00	±2.5	PASS
-0			TN	VH	4.58	0.01	±2.5	PASS
(4	97		TN	VL	4.20	0.00	±2.5	PASS
(0)		HCH	TN	VN	4.07	0.00	±2.5	PASS
			TN	VH	4.84	0.01	±2.5	PASS

Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Temp.	Volt.	(Hz)	(ppm)	(ppm)	Verdict
/			TN	VL	5.42	0.01	±2.5	PASS
		LCH	TN	VN	3.62	0.00	±2.5	PASS
			TN	VH	2.97	0.00	±2.5	PASS
	5		TN	VL	3.81	0.00	±2.5	PASS
GSM850	TM2	MCH	TN	VN	2.65	0.00	±2.5	PASS
(6)	/		TN	VH	2.39	0.00	±2.5	PASS
			TN	VL	2.84	0.00	±2.5	PASS
		HCH	TN	VN	6.07	0.01	±2.5	PASS
		13	TN	VH	3.03	0.00	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			TN	VL	-6.91	0.00	±2.5	PASS
		LCH	TN	VN	-7.49	0.00	±2.5	PASS
-			TN	VH	-6.91	0.00	±2.5	PASS
(6)		(4)	TN	VL	-10.40	-0.01	±2.5	PASS
GSM1900	TM1	MCH	TN	VN	-7.88	0.00	±2.5	PASS
			TN	VH	-13.37	-0.01	±2.5	PASS
			TN	VL	-4.71	0.00	±2.5	PASS
/-		HCH	TN	VN	-7.10	0.00	±2.5	PASS
(25	[4]		TN	VH	-9.36	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
2		15	TN	VL	-1.03	0.00	±2.5	PASS
(4)		LCH	TN	VN	-1.29	0.00	±2.5	PASS
		60	TN	VH	-5.88	0.00	±2.5	PASS
			TN	VL	-11.95	-0.01	±2.5	PASS
GSM1900	TM2	MCH	TN	VN	-9.10	0.00	±2.5	PASS
/-			TN	VH	-12.07	-0.01	±2.5	PASS
(25			TN	VL	-11.69	-0.01	±2.5	PASS
6		HCH	TN	VN	-10.53	-0.01	±2.5	PASS
			TN	VH	-6.52	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
2			TN	VL	-7.86	-0.01	±2.5	PASS
		LCH	TN	VN	-7.61	-0.01	±2.5	PASS
			TN	VH	-6.48	-0.01	±2.5	PASS
MODIMA			TN	VL	2.99	0.00	±2.5	PASS
WCDMA8 50	TM1	MCH	TN	VN	-7.61	0.01	±2.5	PASS
30			TN	VH	6.62	0.01	±2.5	PASS
			TN	VL	9.03	0.01	±2.5	PASS
		HCH	TN	VN	-7.61	0.01	±2.5	PASS
			TN	VH	6.04	0.01	±2.5	PASS
7)		(3)		(6,2)		(6,2)		(3)

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			TN	VL	19.17	0.01	±2.5	PASS
1	LCH	LCH	TN	VN	20.46	0.01	±2.5	PASS
(6)	·*)		TN	VH	20.07	0.01	±2.5	PASS
144001444			TN	VL	24.06	0.01	±2.5	PASS
WCDMA1 900	TM1	MCH	TN	VN	20.46	0.01	±2.5	PASS
900			TN	VH	25.94	0.01	±2.5	PASS
			TN	VL	20.34	0.01	±2.5	PASS
¥*)		HCH	TN	VN	20.46	0.01	±2.5	PASS
			TN	VH	24.55	0.01	±2.5	PASS

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Frequency Error vs. Temperature:

Frequenc	y Error	' vs. Temp	perature	:				
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	2.13	0.00	±2.5	PASS
			VN	-20	4.46	0.01	±2.5	PASS
	M850 TM1 LCH	(3)	VN	-10	0.26	0.00	±2.5	PASS
.")		(3)	VN	0	1.61	0.00	±2.5	PASS
GSM850	TM1	LCH	VN	10	3.94	0.00	±2.5	PASS
			VN	20	1.74	0.00	±2.5	PASS
			VN	30	-0.71	0.00	±2.5	PASS
			VN	40	1.81	0.00	±2.5	PASS
(63	(*)		VN	50	-2.20	0.00	±2.5	PASS
-			VN	-30	4.65	0.01	±2.5	PASS
			VN	-20	2.45	0.00	±2.5	PASS
			VN	-10	4.13	0.00	±2.5	PASS
		VN	0	4.71	0.01	±2.5	PASS	
GSM850	TM1	MCH	VN	10	6.01	0.01	±2.5	PASS
			VN	20	3.16	0.00	±2.5	PASS
			VN	30	3.55	0.00	±2.5	PASS
			VN	40	2.07	0.00	±2.5	PASS
(A			VN	50	5.88	0.01	±2.5	PASS
(0)	٠,		VN	-30	3.55	0.00	±2.5	PASS
			VN	-20	4.13	0.00	±2.5	PASS
			VN	-10	3.36	0.00	±2.5	PASS
			VN	0	4.58	0.01	±2.5	PASS
GSM850	TM1	HCH	VN	10	4.20	0.00	±2.5	PASS
		6	VN	20	2.84	0.00	±2.5	PASS
			VN	30	4.20	0.00	±2.5	PASS
			VN	40	4.33	0.01	±2.5	PASS
0			VN	50	3.10	0.00	±2.5	PASS





(L)





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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	verdict
			VN	-30	3.62	0.00	±2.5	PASS
			VN	-20	3.94	0.00	±2.5	PASS
			VN	-10	3.03	0.00	±2.5	PASS
.")		(3)	VN	0	3.87	0.00	±2.5	PASS
GSM850	TM2	LCH	VN	10	1.49	0.00	±2.5	PASS
			VN	20	5.29	0.01	±2.5	PASS
			VN	30	-0.13	0.00	±2.5	PASS
			VN	40	0.65	0.00	±2.5	PASS
(6)	(*)		VN	50	1.68	0.00	±2.5	PASS
16			VN	-30	4.58	0.01	±2.5	PASS
			VN	-20	3.55	0.00	±2.5	PASS
			VN	-10	-4.13	0.00	±2.5	PASS
			VN	0	0.39	0.00	±2.5	PASS
GSM850	TM2	MCH	VN	10	4.39	0.01	±2.5	PASS
			VN	20	1.23	0.00	±2.5	PASS
			VN	30	4.20	0.01	±2.5	PASS
			VN	40	0.06	0.00	±2.5	PASS
6			VN	50	2.97	0.00	±2.5	PASS
(0)	٠)		VN	-30	4.52	0.01	±2.5	PASS
			VN	-20	2.45	0.00	±2.5	PASS
			VN	-10	2.26	0.00	±2.5	PASS
		and the second	VN	0	-2.71	0.00	±2.5	PASS
GSM850	TM2	HCH	VN	10	0.13	0.00	±2.5	PASS
7		(6)	VN	20	2.52	0.00	±2.5	PASS
			VN	30	-2.00	0.00	±2.5	PASS
			VN	40	0.52	0.00	±2.5	PASS
			VN	50	3.29	0.00	±2.5	PASS





































Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	-6.33	0.00	±2.5	PASS
			VN	-20	-9.81	-0.01	±2.5	PASS
		100	VN	-10	-5.23	0.00	±2.5	PASS
.")		(3)	VN	0	-5.62	0.00	±2.5	PASS
GSM1900	TM1	LCH	VN	10	-8.07	0.00	±2.5	PASS
			VN	20	-5.42	0.00	±2.5	PASS
			VN	30	-6.13	0.00	±2.5	PASS
	6		VN	40	-7.81	0.00	±2.5	PASS
(8)	(2)		VN	50	-6.39	0.00	±2.5	PASS
-			VN	-30	-7.30	0.00	±2.5	PASS
			VN	-20	-8.46	0.00	±2.5	PASS
			VN	-10	-11.30	-0.01	±2.5	PASS
			VN	0	-9.88	-0.01	±2.5	PASS
GSM1900	TM1	MCH	VN	10	-8.14	0.00	±2.5	PASS
			VN	20	-9.56	-0.01	±2.5	PASS
			VN	30	-6.01	0.00	±2.5	PASS
			VN	40	-10.78	-0.01	±2.5	PASS
1			VN	50	-8.07	0.00	±2.5	PASS
(0)	٠)		VN	-30	-3.03	0.00	±2.5	PASS
			VN	-20	-3.87	0.00	±2.5	PASS
			VN	-10	-6.07	0.00	±2.5	PASS
		and the	VN	0	-4.52	0.00	±2.5	PASS
GSM1900	TM1	HCH	VN	10	-5.62	0.00	±2.5	PASS
		6)	VN	20	-5.23	0.00	±2.5	PASS
			VN	30	-5.68	0.00	±2.5	PASS
			VN	40	-3.29	0.00	±2.5	PASS
			VN	50	-6.01	0.00	±2.5	PASS
								1











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Test	Test	Test	Test	Test	Freq.Error	Freq.vs.rated	Limit	Verdict
Band	Mode	Channel	Volt.	Temp.	(Hz)	(ppm)	(ppm)	Voluno
	Band Mode Channel	VN	-30	-8.65	0.00	±2.5	PASS	
			VN	-20	-3.36	0.00	±2.5	PASS
	M1900 TM2 LCH	(3)	VN	-10	9.69	0.01	±2.5	PASS
.~)		(3)	VN	0	-0.77	0.00	±2.5	PASS
GSM1900	TM2	LCH	VN	10	-3.87	0.00	±2.5	PASS
			VN	20	4.84	0.00	±2.5	PASS
			VN	30	-4.65	0.00	±2.5	PASS
/			VN	40	-1.03	0.00	±2.5	PASS
(&	(2)		VN	50	1.16	0.00	±2.5	PASS
6	1		VN	-30	-12.33	-0.01	±2.5	PASS
			VN	-20	-12.79	-0.01	±2.5	PASS
			VN	-10	-8.59	0.00	±2.5	PASS
		(3)	VN	0	-19.89	-0.01	±2.5	PASS
GSM1900	TM2	MCH	VN	10	-5.10	0.00	±2.5	PASS
			VN	20	-11.62	-0.01	±2.5	PASS
			VN	30	-8.14	0.00	±2.5	PASS
			VN	40	-20.40	-0.01	±2.5	PASS
(2			VN	50	-16.47	-0.01	±2.5	PASS
(6)	67)		VN	-30	-10.78	-0.01	±2.5	PASS
			VN	-20	-11.82	-0.01	±2.5	PASS
			VN	-10	-20.86	-0.01	±2.5	PASS
		100	VN	0	-7.68	0.00	±2.5	PASS
GSM1900	TM2	HCH	VN	10	-11.17	-0.01	±2.5	PASS
		(6)	VN	20	-14.66	-0.01	±2.5	PASS
			VN	30	-16.92	-0.01	±2.5	PASS
			VN	40	-16.98	-0.01	±2.5	PASS
			VN	50	-19.69	-0.01	±2.5	PASS







































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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
	CDMA TM1 LCH	VN	-30	-5.42	-0.01	±2.5	PASS	
			VN	-20	-2.81	0.00	±2.5	PASS
			VN	-10	1.51	0.00	±2.5	PASS
		(100	VN	0	-0.49	0.00	ppm) (ppm) 0.01 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.01 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5	PASS
WCDMA	TM1	LCH	VN	10	3.57	0.00	±2.5	PASS
650			VN	20	2.20	0.00	±2.5	PASS
			VN	30	5.72	0.01	±2.5	PASS
-	2/2		VN	40	-0.52	0.00	±2.5	PASS
(~5	(2)		VN	50	1.94	0.00	±2.5	PASS
6	/		VN	-30	-0.31	0.00	±2.5	PASS
			VN	-20	2.79	0.00	±2.5	PASS
			VN	-10	7.71	0.01	±2.5	PASS
		(3)	VN	0	5.08	0.01	±2.5	PASS
WCDMA	TM1	MCH	VN	10	5.42	0.01	(ppm) (ppm) -0.01 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.01 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5 0.01 ±2.5	PASS
650			VN	20	4.94	0.01	±2.5	PASS
			VN	30	8.97	0.01	±2.5	PASS
			VN	40	3.94	0.00	±2.5	PASS
1			VN	50	7.57	0.01	±2.5	PASS
(67	•)		VN	-30	7.64	0.01	±2.5	PASS
6			VN	-20	8.24	0.01	±2.5	PASS
			VN	-10	9.52	0.01	±2.5	PASS
14/00144		100	VN	0	6.47	0.01	±2.5	PASS
	WCDMA TM1 HCH	HCH	VN	10	9.57	0.01	±2.5	PASS
000		(6)	VN	20	9.58	0.01	0.00 ±2.5 0.00 ±2.5 0.01 ±2.5 0.00 ±2.5 0.00 ±2.5 0.00 ±2.5 0.01 ±2.5	PASS
			VN	30	9.86	0.01	±2.5	PASS
			VN	40	10.45	0.01	±2.5	PASS
	VCDMA 850 TM1 HCH		VN	50	8.97	0.01	±2.5	PASS





































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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
			VN	-30	18.68	0.01	±2.5	PASS
			VN	-20	22.31	0.01	±2.5	PASS
			VN	-10	19.04	0.01	±2.5	PASS
		(10)	VN	0	15.64	0.01	±2.5	PASS
WCDMA 1900	TM1	LCH	VN	10	22.66	0.01	±2.5	PASS
1900			VN	20	19.23	0.01	±2.5	PASS
			VN	30	26.52	0.01	±2.5	PASS
/			VN	40	24.86	0.01	±2.5	PASS
(3	(2)		VN	50	21.39	0.01	±2.5	PASS
6			VN	-30	21.13	0.01	±2.5	PASS
			VN	-20	25.45	0.01	±2.5	PASS
			VN	-10	18.26	0.01	±2.5	PASS
N		(3)	VN	0	17.76	0.01	±2.5	PASS
WCDMA 1900	TM1	MCH	VN	10	22.75	0.01	±2.5	PASS
1900			VN	20	20.00	0.01	±2.5	PASS
			VN	30	17.90	0.01	±2.5	PASS
			VN	40	28.21	0.02	±2.5	PASS
1			VN	50	18.89	0.01	±2.5	PASS
(6)	· ")		VN	-30	24.05	0.01	±2.5	PASS
6			VN	-20	27.60	0.01	±2.5	PASS
			VN	-10	27.98	0.01	±2.5	PASS
14400144			VN	0	23.07	0.01	±2.5	PASS
WCDMA 1900	TM1	HCH	VN	10	21.42	0.01	±2.5	PASS
1900			VN	20	24.15	0.01	±2.5	PASS
			VN	30	20.32	0.01	±2.5	PASS
			VN	40	24.40	0.01	±2.5	PASS
			VN	50	29.30	0.02	±2.5	PASS





































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Appendix G) Effective Radiated Power of Transmitter (ERP/EIRP)

Receiver Setup:	Freque	ency	Detector	RBW	VBW	Remark
	30MHz-	1GHz	peak	100kHz	300kHz	Peak
	Above	1GHz	Peak	1MHz	3MHz	Peak
/leasurement	Test procedure	as below:	(6)		(6)	(6)
Procedure:	Anechoic (length. mo of the trans 2) The EUT w interference antenna to	Chamber. The dulation mosmitter under was set 3 mere-receiving a wer.	de and the mea test. ters(above 18G antenna, which	ne transmitter asuring received GHz the distant was mounter	was extender wer shall be tunce is 1 meter don the top o	d to its maximum ned to the frequence of the frequence of away from the favariable-height
	raising and the turntab	l lowering fro	om 1m to 4m th fundamental er	e receive ant	enna and by i	ceiver display by rotating through 360 field strength
	4) Steps 1) to		formed with the	EUT and the	e receive ante	enna in both vertica
	5) The transm	nitter was the	en removed and			enna. The center of the transmitter
	6) A signal at radiating c polarized, at the test field streng 7) The output 8) Steps 6) at 9) Calculate p ERP(d	the disturbather exercive a receiver. The strength level in strength (b) where repower in dBn (b) and 7) were repower in dBn (c) and a strength for the	nce was fed to oth the substitution the substitution peated with both by the following many — cable loss (Bm)	the substituti tion and the r ised and lowe gnal generate ed for this set antenna was th antennas p ng formula: s (dB) + ante	on antenna by receive antenre ered to obtain or was adjuste of conditions then measur polarized.	y means of a non- nas horizontally a maximum readin ed until the measure ed.
	11) The radiati operation i	JT in the low on measurer mode,And fo	power into the solvest channel, the ments are perfound the X axis res until all freques	e middle cha ormed in X, Y positioning w	nnel the High , Z axis position hich it is wors	oning for EUT se case.
Limit:	(43)				-06.71	(4)
Limit:	Mode	GSM 850/\ /HSUPA E	WCDMA/HSDP and V		SM 1900/WCI SUPA Band	
Limit:	Mode Frequency		and V	/H		V
Limit:		/HSUPA E	and V MHz	/H 18	SUPA Band	V Iz













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Measurement Data

(6.)	1	6.	GSM	850 (Voice))		(0,)
Channel/fc (MHz)	Height (m)	Azimuth (deg)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
120/024 2	150	46	23.78	38.45	-14.67	Pass	Н
128/824.2	150	132	29.03	38.45	-9.42	Pass	V
100/026 6	150	61	23.78	38.45	-14.67	Pass	н
190/836.6	150	102	28.17	38.45	-10.28	Pass	V
254/040.0	150	84	23.32	38.45	-15.13	Pass	Н
251/848.8	150	215	29.05	38.45	-9.40	Pass	V

			Gl	PRS 850			
Channel/fc (MHz)	Height (m)	Azimuth (deg)) (dBm) (dBm) (dB) Result		Result	Antenna Polaxis.	
128/824.2	150	310	23.44	38.45	-15.01	Pass	н
120/024.2	150	62	28.31	38.45	-10.14	Pass	V
100/026 6	150	39	23.05	38.45	-15.40	Pass	Н
190/836.6	150	58	27.96	38.45	-10.49	Pass	V
251/040.0	150	92	23.15	38.45	-15.30	Pass	G H
251/848.8	150	251	29.01	38.45	-9.44	Pass	V

X	13	\	WCE	MA band \	/	100	(3
Channel/fc (MHz)	C Height Azimuth ERP Limit Over Limit (m) (deg) (dBm) (dBm) (dB)		- I Resul		Result	Antenna Polaxis.	
4132/	150	216	16.58	38.45	-21.87	Pass	Н
826.4	150	261	21.07	38.45	-17.38	Pass	V
4183/	150	87	15.73	38.45	-22.72	Pass	(H
836.6	150	92	20.67	38.45	-17.78	Pass	V
4233/	150	106	15.07	38.45	-23.38	Pass	Н
846.6	150	91	20.39	38.45	-18.06	Pass	V

GSM 1900 (Voice)										
Channel/fc (MHz)	Height (m)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.			
	150	62	20.41	33.01	-12.60	Pass	Н			
512/1850.2	150	81	27.11	33.01	-5.90	Pass	V			
	150	102	19.83	33.01	-13.18	Pass	Н			
661/1880.0	150	152	27.41	33.01	-5.60	Pass	V			
1	150	160	20.68	33.01	-12.33	Pass	Н			
810/1909.8	150	107	26.96	33.01	-6.05	Pass	V			

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(3)		(3)	GF	PRS 1900	10.5		
Channel/fc (MHz)	Height (m)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
	150	106	19.48	33.01	-13.53	Pass	Н
512/1850.2	150	137	28.01	33.01	-5.00	Pass	V
(5)	150	182	19.71	33.01	-13.30	Pass	н (СССС)
661/1880.0	150	129	27.67	33.01	-5.34	Pass	V
	150	150	20.05	33.01	-12.96	Pass	Н
810/1909.8	150	117	27.36	33.01	-5.65	Pass	V

			WCE				
Channel/fc (MHz)	Height (m)	Azimuth (deg)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
9)	150	210	18.04	33.01	-14.97	Pass	н
9262/1852.4	150	62	26.78	33.01	-6.23	Pass	V
	150	91	17.68	33.01	-15.33	Pass	Н
9400/1880.0	150	103	28.17	33.01	-4.84	Pass	V
	150	153	18.21	33.01	-14.80	Pass	Н
9538/1907.6	150	216	29.03	33.01	-3.98	Pass	V











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Appendix H) Field strength of spurious radiation

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	0.009MHz-30MHz	Peak	10kHz	30kHz	Peak	
	30MHz-1GHz	Peak	100kHz	300kHz	Peak	705
(2)	Above 1GHz	Peak	1MHz	3MHz	Peak	(2)
Measurement Procedure:	Scan up to 10 th harmor The technique used to antenna substitution mactual ERP/EIRP emis Test procedure as below: The EUT was powered Anechoic Chamber. The length, modulation monogreus frequency of the transmacture. The EUT was set 3 me interference-receiving antenna tower. The disturbance of the raising and lowering free.	nic, find the manifind the Spurior ethod. Substitution levels of the ON and placed antenna of the de and the meanitter under test ters(above 18G antenna, which transmitter was	ximum radia us Emission tion method le EUT. If on a 1.5m le transmitte asuring rece litical Hz the dista was mount maximized	hight table er was exterior shall I ance is 1 med on the test	ency to measuransmitter was brinded to determined to the meter) away froop of a variable of receiver disp	the mine the fully aximum e om the le-height
(chi)	 360° the turntable. After measurement was made. 4) Steps 1) to 3) were per and horizontal polariza. 5) The transmitter was the the antenna was approached. 6) A signal at the disturbation radiating cable. With both signal and the disturbation. 	er the fundamer de. formed with the tion. en removed and ximately at the nce was fed to oth the substitu	tal emission EEUT and the replaced visame location and the	n was max ne receive with another ion as the tion antenion receive an	imized, a field antenna in bo ar antenna. The center of the tona by means ontennas horizon	strength th vertical e center of ransmitter. of a non- ontally
	polarized, the receive a reading at the test recemeasured field strength. 7) The output power into the strength of the streng	eiver. The level in level in step 3 the substitution peated with both by the following m) – cable lose m) – cable lose m) – cable lose	of the signa) is obtained antenna wach antennas ng formula: s (dB) + ant	I generator d for this sets then me polarized.	r was adjusted et of condition asured. (dBd)	l until the
	Pg is the generator ou 10) Test the EUT in the low 11) The radiation measured operation mode,And fo 12) Repeat above procedu	vest channel, the ments are perfo und the X axis	e middle ch ormed in X, positioning	annel the l Y, Z axis p which it is	Highest chann ositioning for l worse case.	
Limit:	Attenuated at least 43+10ld	og(P)			-	



















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ı agc	02	\sim	120

(6)	")	(6	GPRS 850 (lower c	hannel))	(c	<i>[57]</i>
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1648.4	150	36	-32.14	-13	-19.14	Pass	H /*5
2472.6	150	84	-33.52	-13	-20.52	Pass	н (С
3296.8	150	173	-38.67	-13	-25.67	Pass	Н
1648.4	150	42	-42.53	-13	-29.53	Pass	V
2472.6	150	163	-38.56	-13	-25.56	Pass	V
3296.8	150	184	-40.51	-13	-27.51	Pass	V

			GPRS 1900 (lower of	channel)			
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
3819.6	150	83	-40.76	-13	-27.76	Pass	н
5726.4	150	216	-40.82	-13	-27.82	Pass	Н
7636.2	150	163	-39.78	-13	-26.78	Pass	Н
3819.6	150	105	-41.83	-13	-28.83	Pass	V
5726.4	150	38	-40.92	-13	-27.92	Pass	V
7636.2	150	106	-41.37	-13	-28.37	Pass	V

)	(6)	V)	GSM 850 (lower ch	nannel)	(6))	(6)
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1648.4	150	32	-40.56	-13	-27.56	Pass	Н
2472.6	150	102	-41.62	-13	-28.62	Pass	Н
3296.8	150	84	-41.57	-13	-28.57	Pass	Н
1648.4	150	121	-38.63	-13	-25.63	Pass	V
2472.6	150	216	-40.92	-13	-27.92	Pass	V
3296.8	150	305	-39.05	-13	-26.05	Pass	V







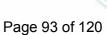












GSM 1900 (lower channel)								
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.	
3819.6	150	43	-40.72	-13	-27.72	Pass	Н	
5726.4	150	183	-41.62	-13	-28.62	Pass	н (А	
7636.2	150	6	-41.06	-13	-28.06	Pass	н	
3819.6	150	124	-42.31	-13	-29.31	Pass	V	
5726.4	150	76	-42.16	-13	-29.16	Pass	V	
7636.2	150	182	-43.67	-13	-30.67	Pass	V	

	HSDPA 850 (lower channel)									
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.			
1648.4	150	271	-33.43	-13	-20.43	Pass	н			
2472.6	150	206	-45.35	-13	-32.35	Pass	Н			
3296.8	150	84	-47.39	-13	-34.39	Pass	Н			
1648.4	150	39	-29.45	-13	-16.45	Pass	V			
2472.6	150	218	-49.64	-13	-36.64	Pass	V			
3296.8	150	263	-48.4	-13	-35.4	Pass	V			

(*)	(6)	(2)	HSDPA 1900 (lower	channel)	(6))	(8)
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
3819.6	150	215	-41.47	-13	-28.47	Pass	H H
5726.4	150	31	-37.78	-13	-24.78	Pass	(S) H
7636.2	150	65	-33.73	-13	-20.73	Pass	Н
3819.6	150	8	-42.57	-13	-29.57	Pass	V
5726.4	150	95	-41.17	-13	-28.17	Pass	V
7636.2	150	102	-37.98	-13	-24.98	Pass	V





















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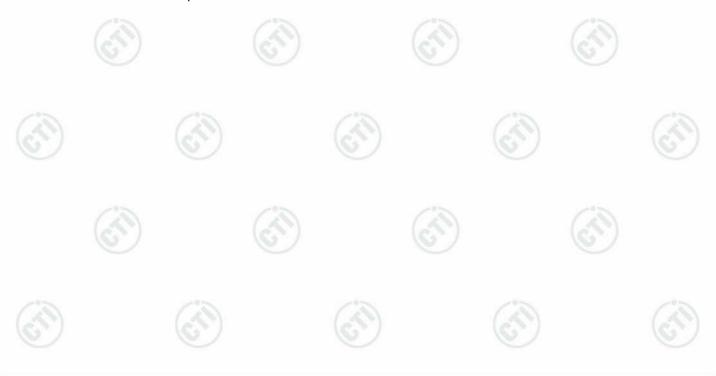
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(6.7)	")	(c	WCDMA 850 (lower	channel))	(e	(2)
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.
1648.4	150	78	-38.12	-13	-25.12	Pass	Н
2472.6	150	102	-39.61	-13	-26.61	Pass	н (А
3296.8	150	139	-40.51	-13	-27.51	Pass	н
1648.4	150	97	-36.91	-13	-23.91	Pass	V
2472.6	150	108	-39.67	-13	-26.67	Pass	V
3296.8	150	113	-40.52	-13	-27.52	Pass	V

WCDMA 1900 (lower channel)								
Frequency (MHz)	Height (cm)	Azimuth (deg)	Spurious Emission Level(dBm)	Limit (dBm)	Over Limit (dB)	Result	Antenna Polaxis.	
3819.6	150	106	-37.61	-13	-24.61	Pass	н	
5726.4	150	173	-38.64	-13	-25.64	Pass	Н	
7636.2	150	39	-40.51	-13	-27.51	Pass	Н	
3819.6	150	167	-39.74	-13	-26.74	Pass	V	
5726.4	150	85	-40.51	-13	-27.51	Pass	V	
7636.2	150	215	-41.32	-13	-28.32	Pass	V	

Note:

¹⁾ Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.









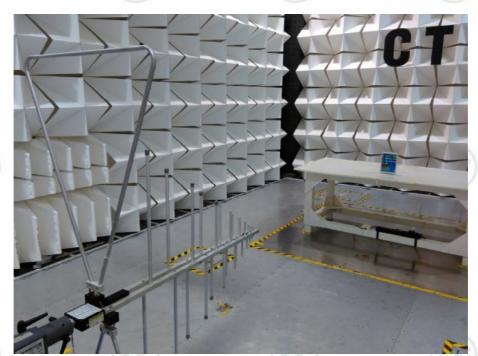


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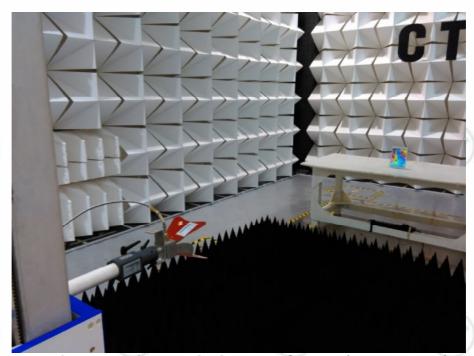


PHOTOGRAPHS OF TEST SETUP

Test mode No.: E97



Radiated spurious emission Test Setup-1(Below 1GHz)



Radiated spurious emission Test Setup-2(Above 1GHz)



















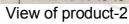
Report No.: EED32H0097804 Page 96 of 120

PHOTOGRAPHS OF EUT Constructional Details

Test mode No.: E97



















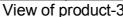






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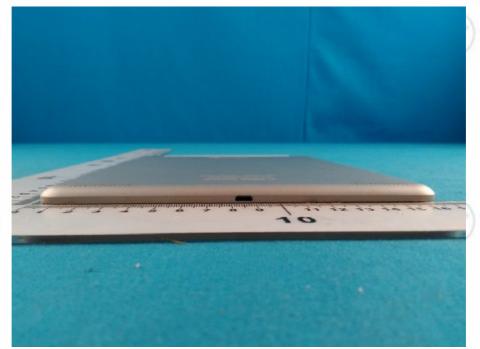








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View of product-5













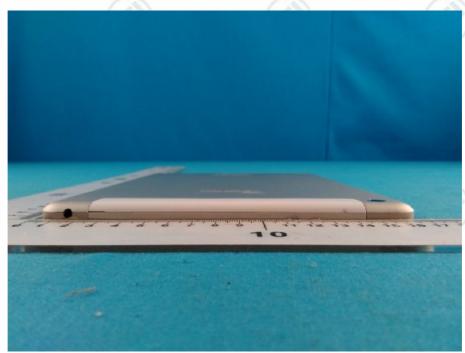








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View of product-7





















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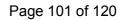






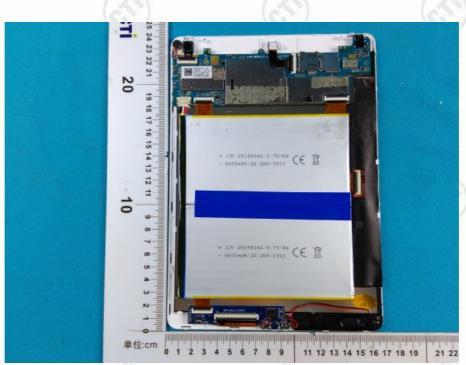








View of product-11



View of product-12









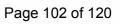


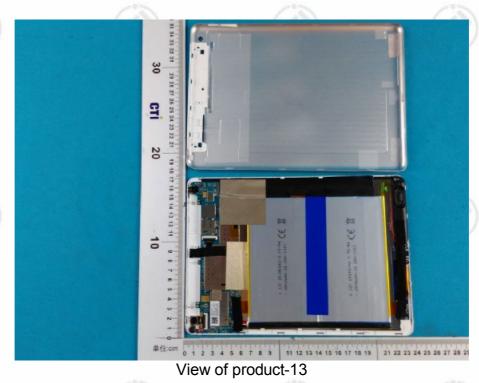


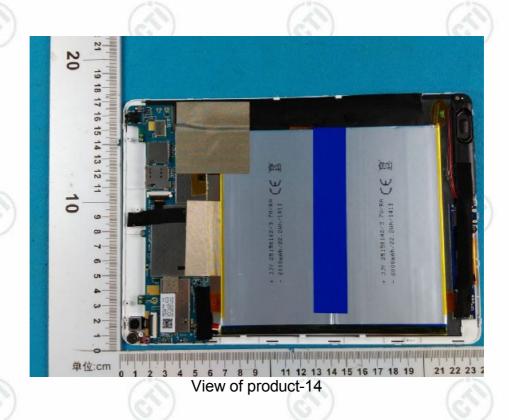




















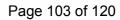














View of product-15











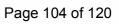






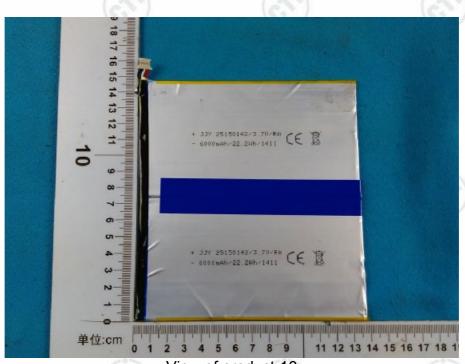


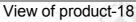






View of product-17















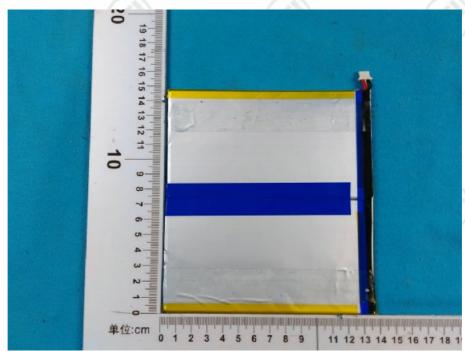








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View of product-19













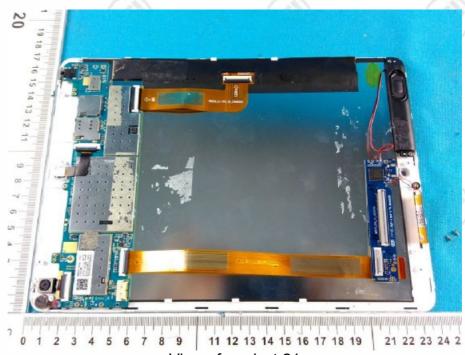








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View of product-21



View of product-22



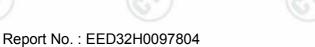








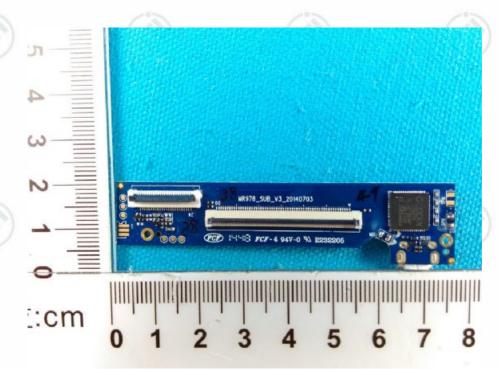




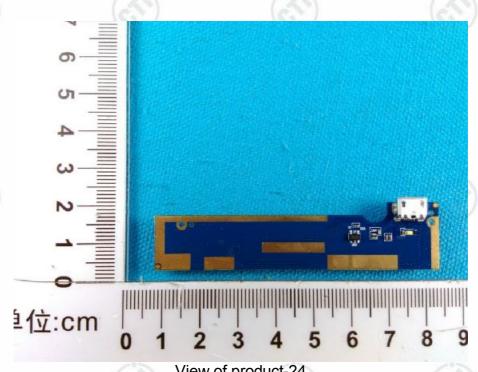




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View of product-23



View of product-24











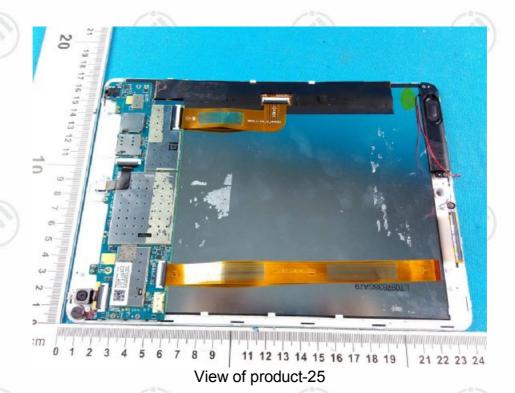




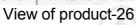




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View of product-27



View of product-28











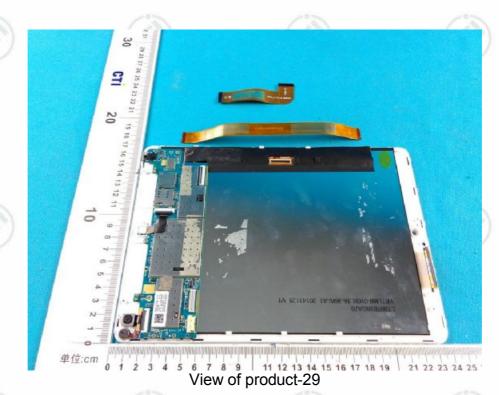








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View of product-30











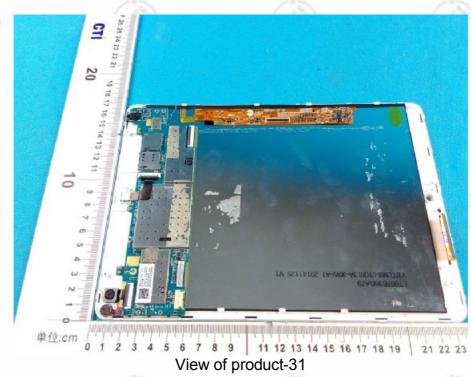




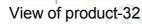




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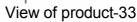






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View of product-34















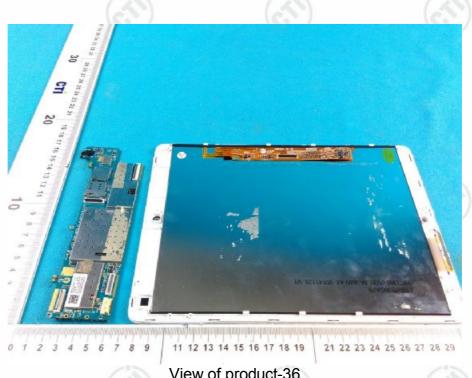




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View of product-35



View of product-36











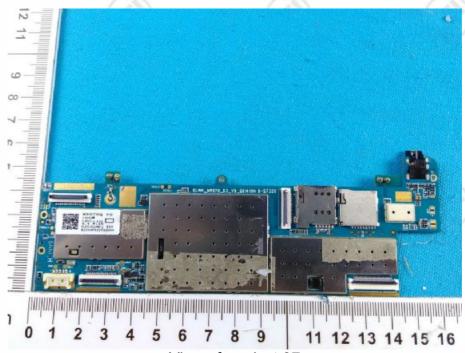


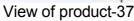


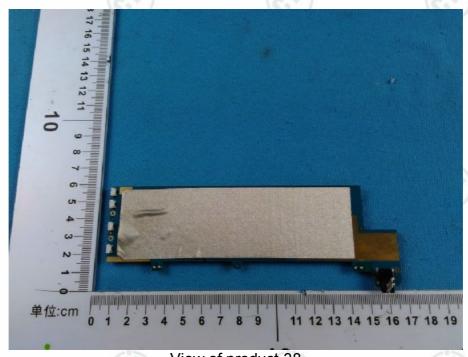




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View of product-38











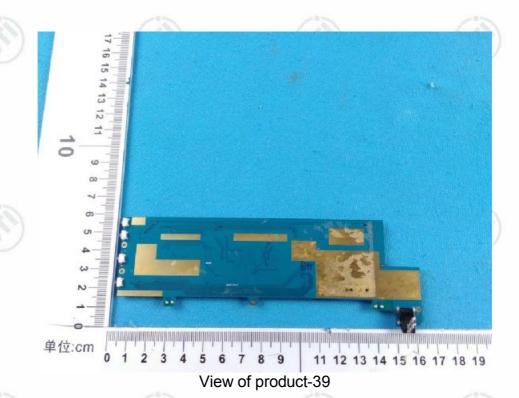




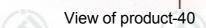




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!位:cm





11 12 13 14 15 16 17 11



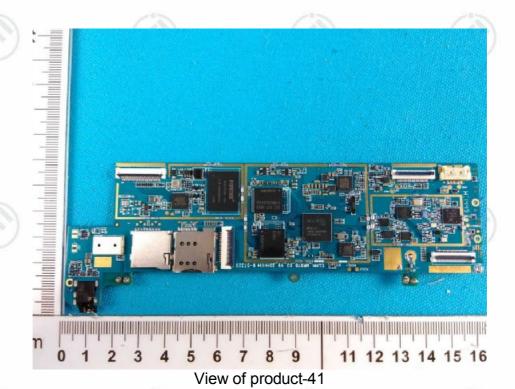








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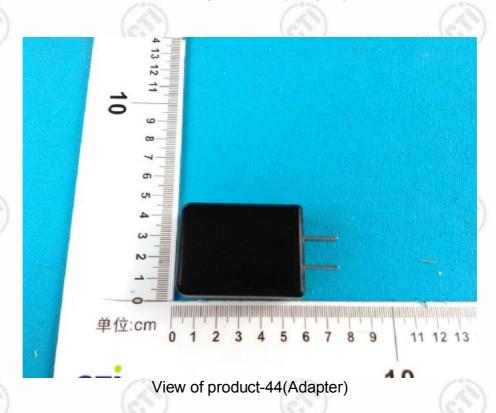






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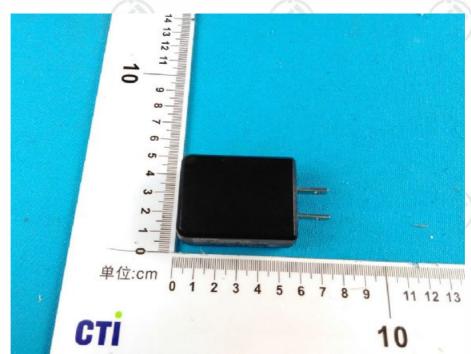




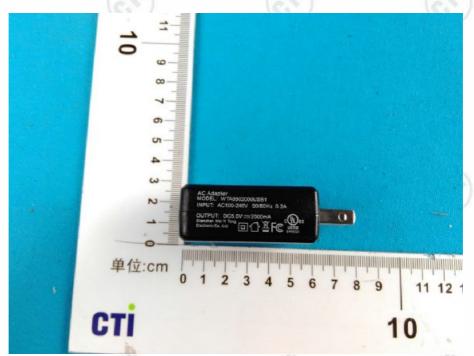




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View of product-45(Adapter)



View of product-46(Adapter)











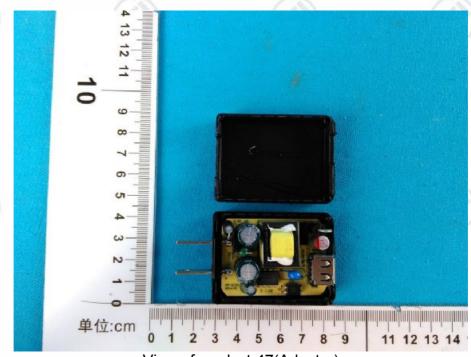




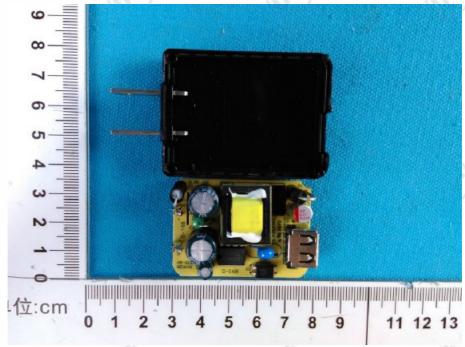




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View of product-47(Adapter)



View of product-48(Adapter)





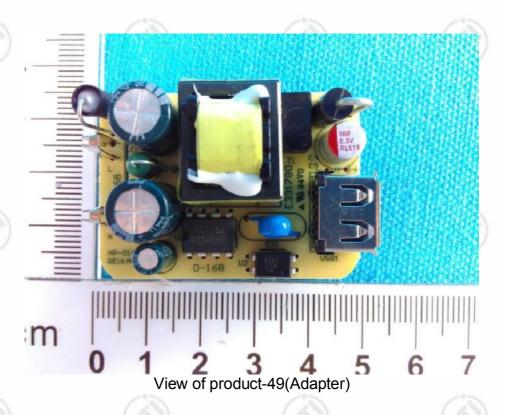


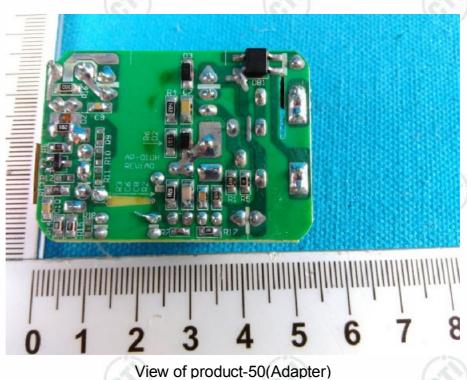






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view or product oot/ taapter

*** End of Report ***

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